

# THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,207 81st YEAR

THURSDAY, FEBRUARY 11, 1960

PRICE 2/-

## **EUCLIDS move the earth**



# **BLACKWOOD HODGE**

Subsidiary Companies Branches Works and Agencies throughout the World



## "Multiple Sitework"

*Rush and Tompkins Ltd., use one Michigan tractor shovel  
for site to site mobility*

### THE PROBLEM

Separated by eight miles of busy London streets, two London County Council housing sites are being developed by Rush and Tompkins Limited, one of Britain's major Building Contractors. A general purpose earth moving machine, able to travel under its own power from site to site, was required for clearing and levelling. But, since these jobs did not together add up to a full time assignment, the machine would be used for carrying, loading and stockpiling.

This was the problem facing Mr. Jack Lund, their Plant Manager—to find a Tractor Shovel with good road travel characteristics, with ample horsepower and tractive ability, to work well in wet London clay, and with sufficient versatility to ensure its full-time employment.

### THE ANSWER

Mr. Lund decided to put various makes of crawler and rubber tyred shovels on trial and then ordered a Michigan 85A.

"Because of the heavy wet ground conditions", he said, "we had assumed we should need a crawler, but were willing to try a Michigan, as it could get from one site to the other quickly".

"The Michigan's performance on trial, however, convinced us that not only could it travel faster, but could handle more than any other machine of comparable horsepower, and it could work efficiently in the congested area of the building operations".

### HOW THE MICHIGAN WORKS FOR RUSH AND TOMPKINS LTD.

Twice each week the machine moves from Sydenham Hill Estate to Wandsworth. The eight miles journey takes thirty minutes, and the Michigan arrives ready for work.

Clearing and levelling the heavy clay is the Michigan's primary job. The special power train shows up well in these conditions. Torque build up in the convertor automatically matches the draw-bar requirements—this means more "push" when the



"going is tough". The blade edge is forced through the top layers of muck and the full bucket load is dumped at the end of the run. On the return journey the back edge of the blade levels the ground behind the high flotation tyres leaving a smooth compacted surface. The machine is working throughout the cycle, forward and reverse.

### MORE JOBS HANDLED — BETTER

The 85A is too useful to be left idle between clearing operations whether it is loading out lorries with rubble, carrying and stacking, or towing, it is always on call. Always ready for an emergency, its capacity for salvaging other vehicles, emphasises its unique adaptability.

The operator likes the way it handles—he finds he can work right through his shift at top efficiency. The power controls and smooth easy movement cut out the fatigue he has been used to on bone shaking crawlers. He likes the way the Michigan goes right

into the load and comes out with a full bucket every time without jolting.

He can see where he's going and he can get into—and out of—tight corners, to work where normally manual labour would have been employed. The feel of finger tip power and versatility makes him the most useful member of the team, and he is proud of his capacity to speed the job along.

### A GOOD CLEAN JOB

Rush and Tompkins Ltd. note how well the Michigan leaves the site, there is no churned up ground to make good, no broken drains, kerbstones or man-hole covers, and since much of the work entails travelling on the Public Highways, this is "money in the bank".

At these two building sites, the Michigan 85A has proved to be the ideal *all-round handling tool*, and has shown it can work long and well in all sorts of ground conditions.

## MICHIGAN



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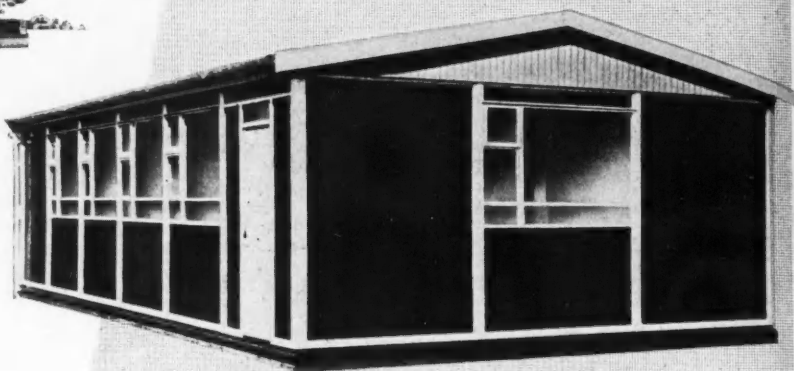
SCOTTISH LAND DEVELOPMENT CORPORATION LTD., 72 Dykehead Street, Queenslie, Glasgow E.3.

Telephone: Glasgow Shettleston 3546.

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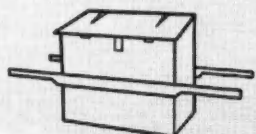
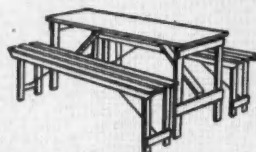
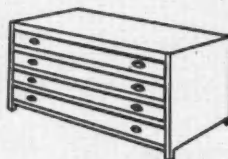
HARDUN'S specialise in a range of Portable Buildings from Foremen's Site Cabins, which can be obtained from stock, to large modern Offices constructed from Western Red Cedar or Resin Bonded Plywood, as illustrated.

## MOBILE SITE OFFICES



HARDUN'S Mobile Site Offices are specially designed for Public Works Contractors and can be fitted with desks, Plan Chests and provided with heating and lighting or can be fitted out for sleeping accommodation.

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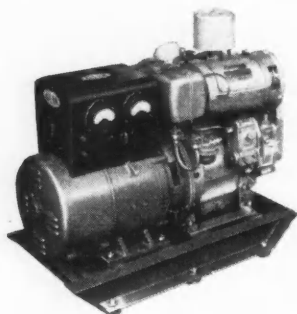
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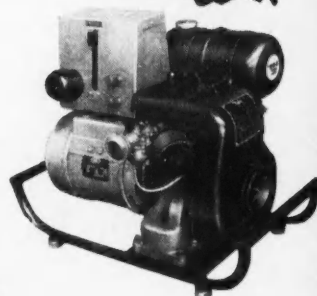
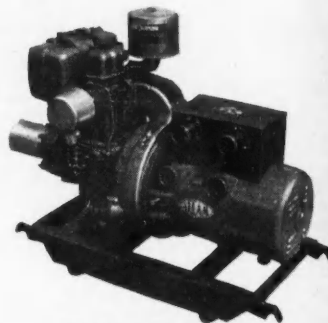


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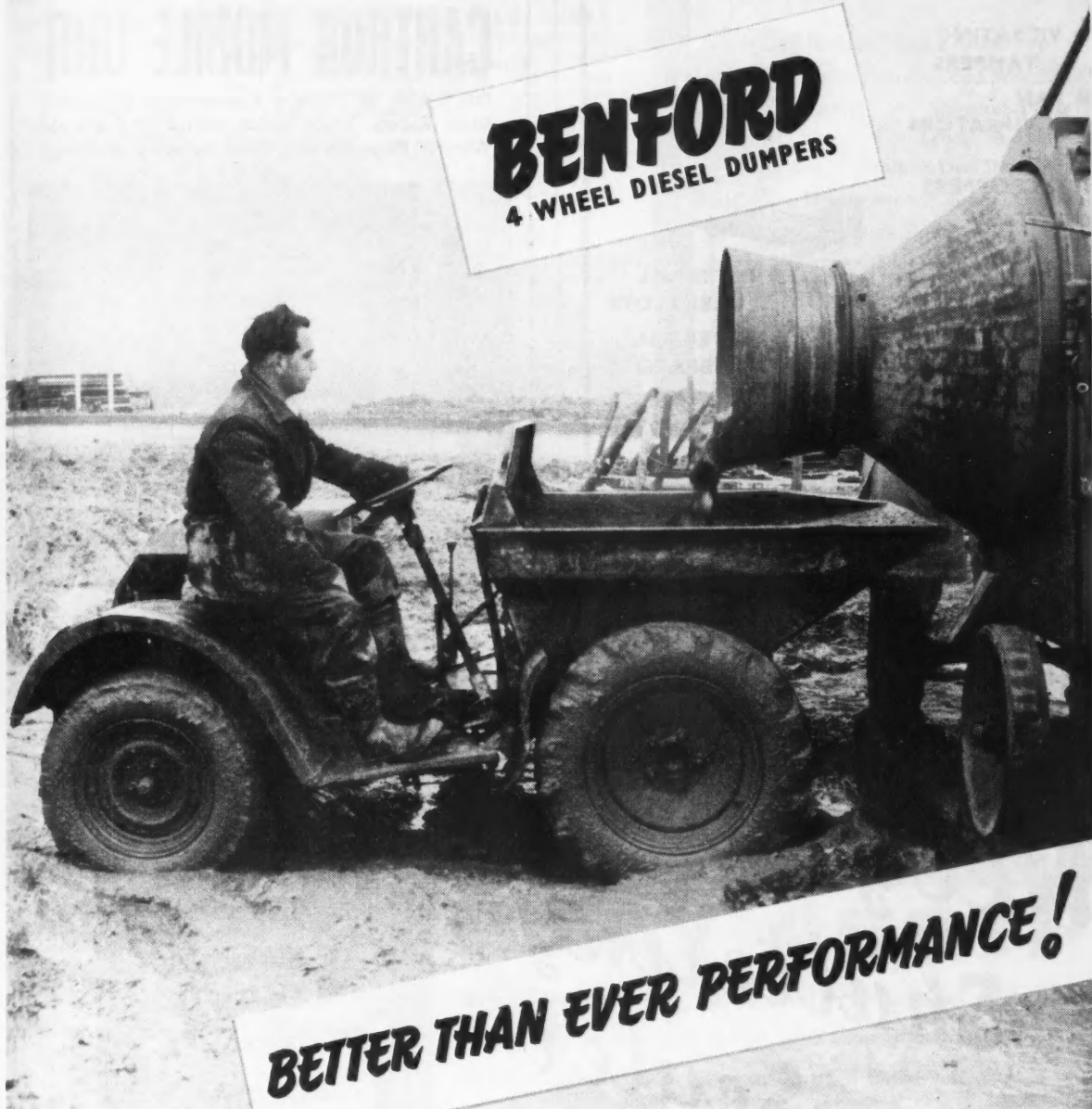
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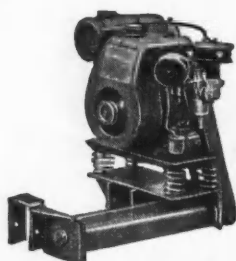
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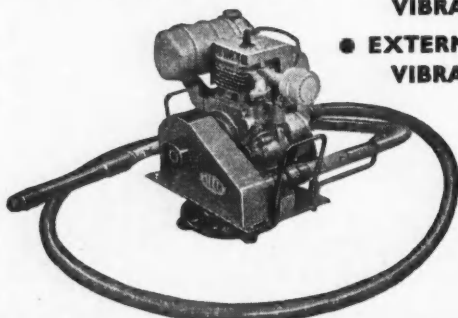
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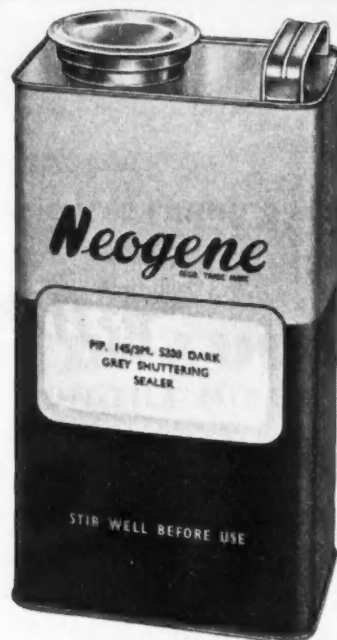
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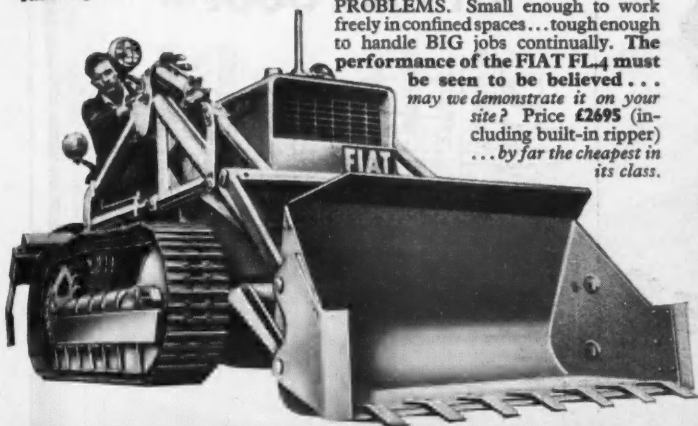
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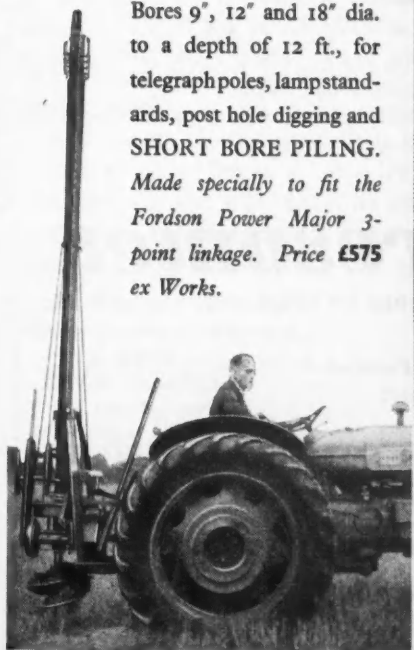
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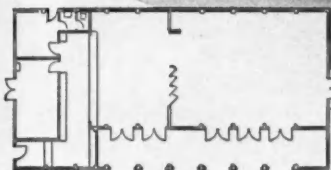
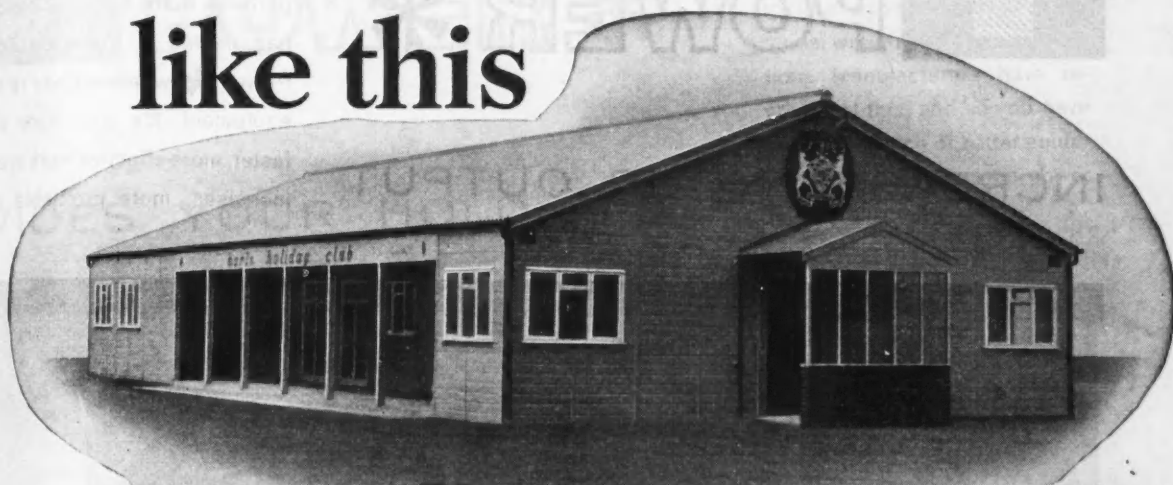
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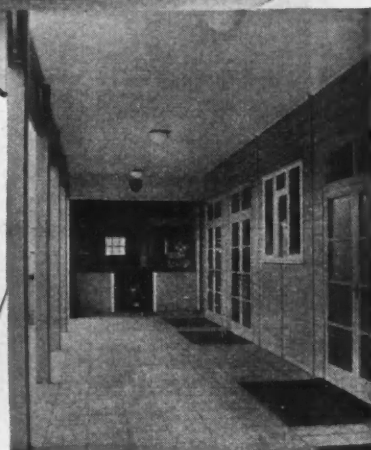
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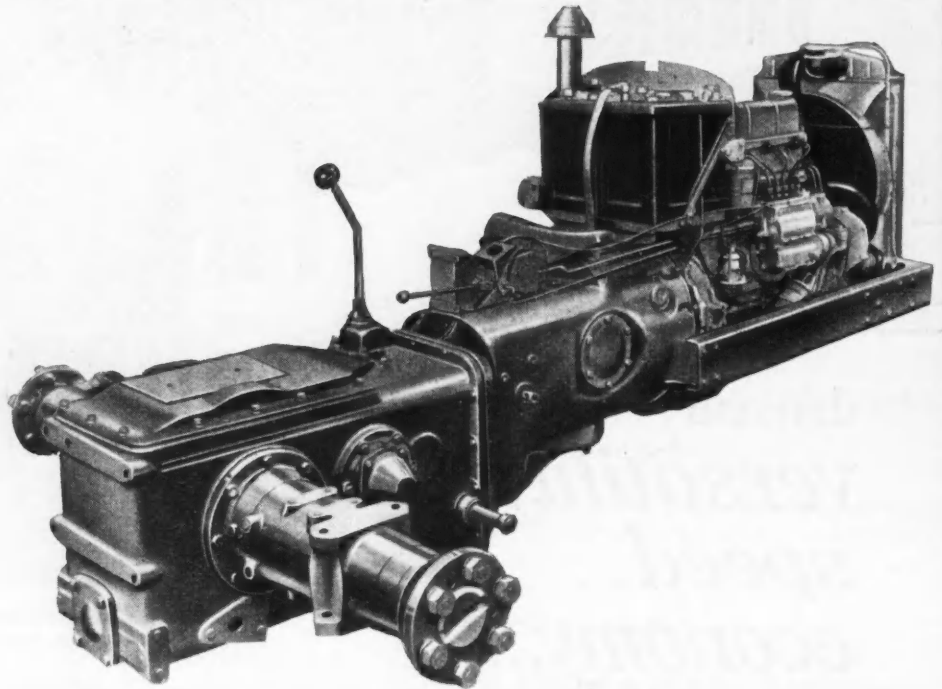




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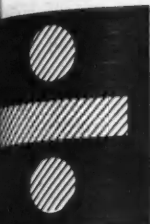
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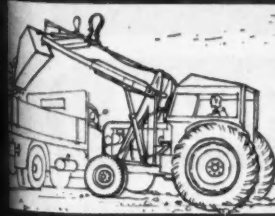
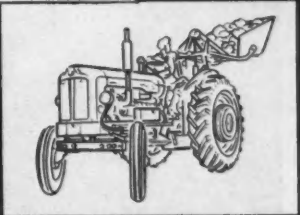
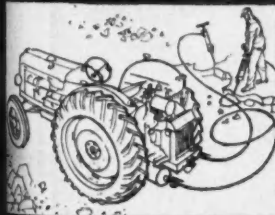
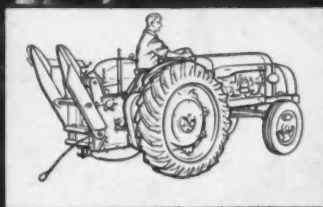




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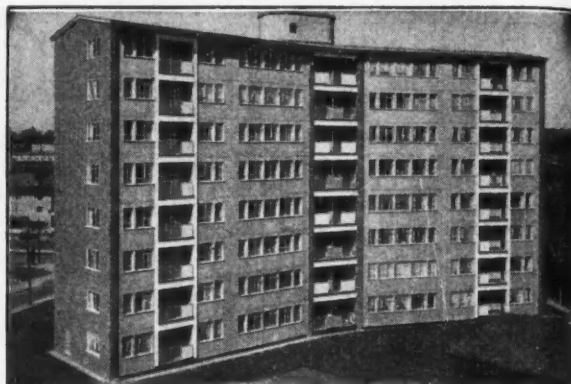
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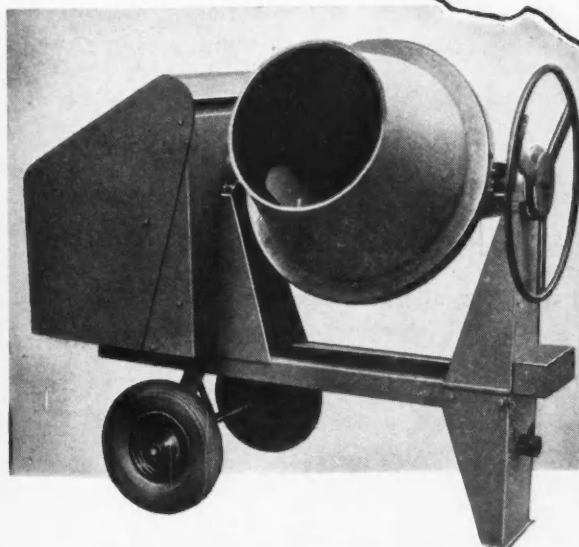
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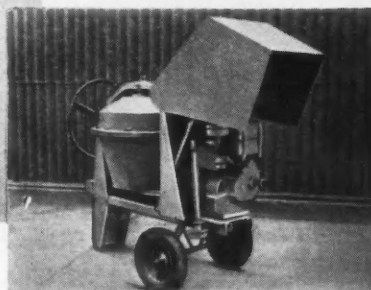
Since its recent introduction, the new Diesel 4/3 Barford Concrete Mixer has been acclaimed by users everywhere for its low running costs and high standard of performance. The testimonial letter reproduced here is genuine evidence of the advantages you stand to gain by employing this economical and hard-working machine.

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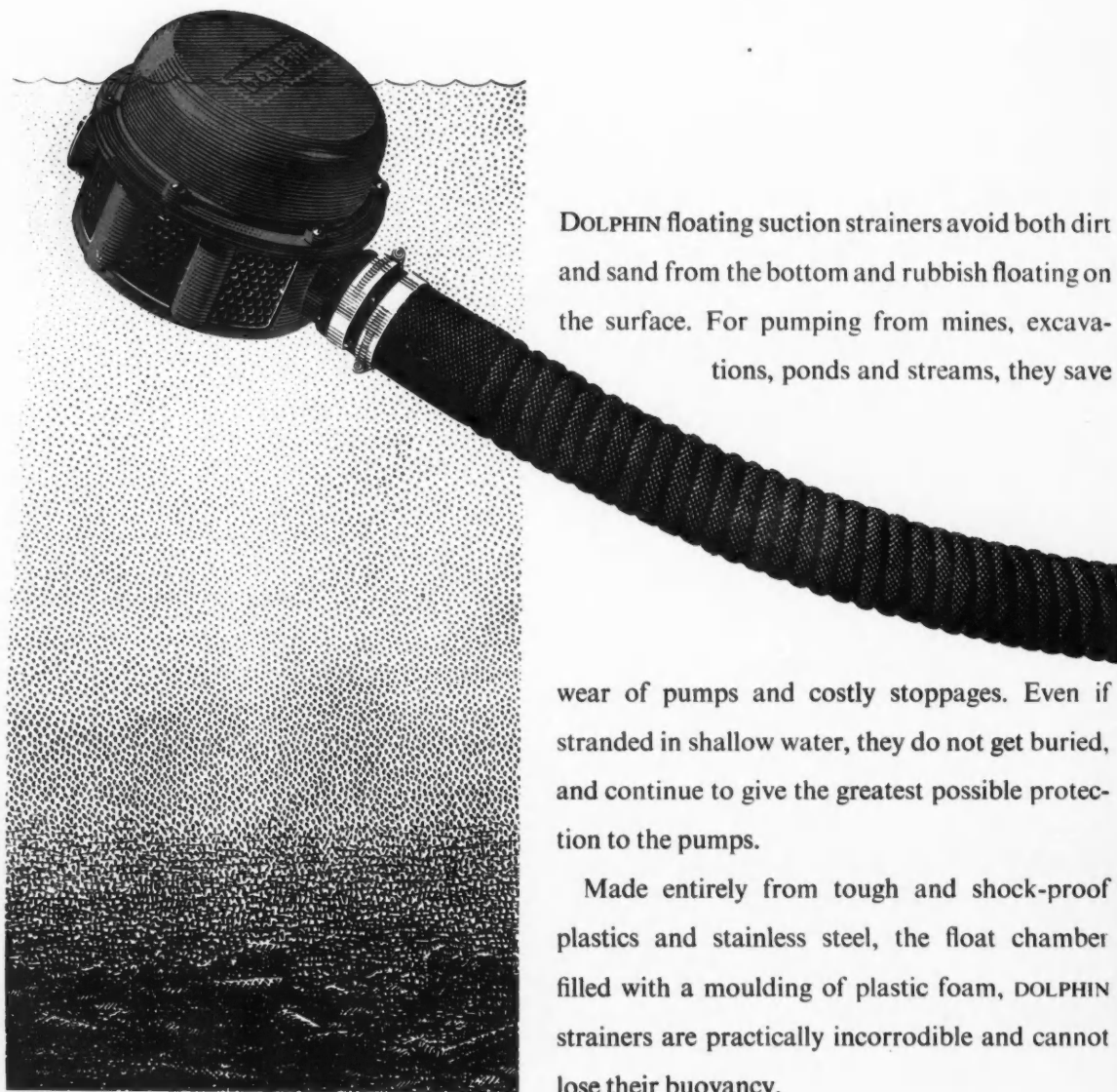
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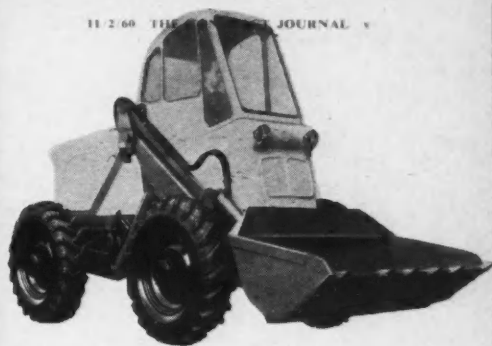




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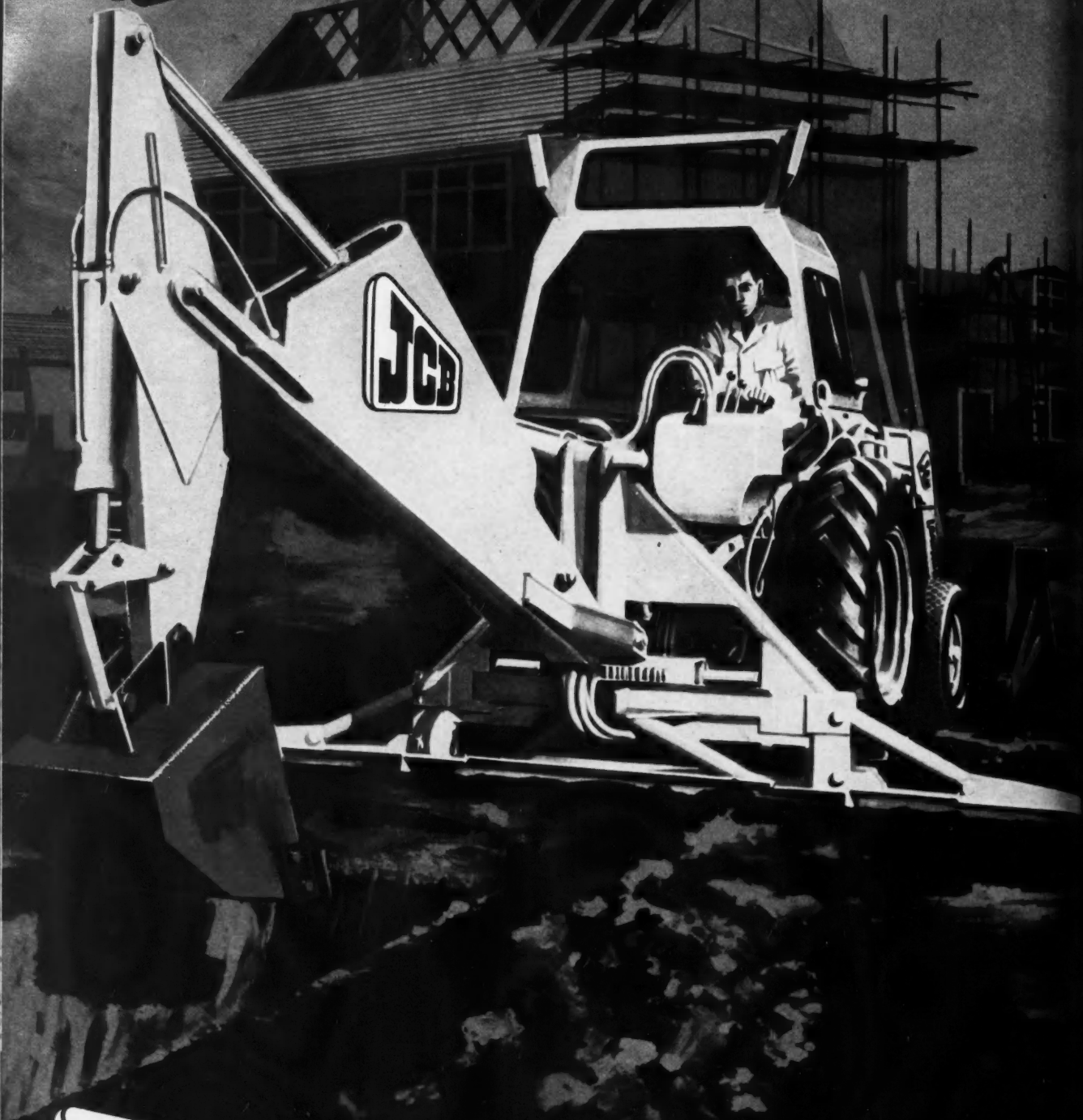
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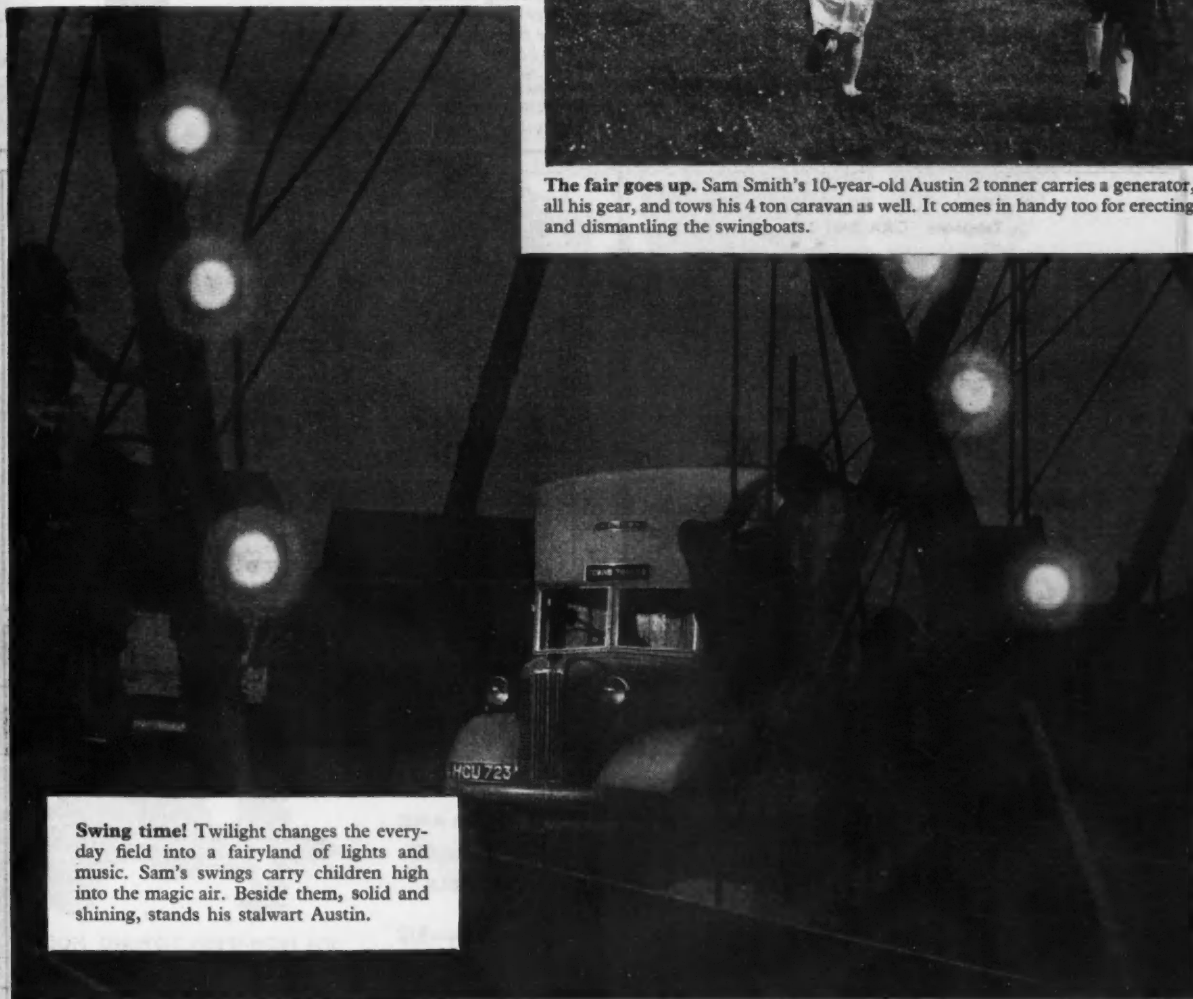




## What you gain on the swings...



The fair goes up. Sam Smith's 10-year-old Austin 2 tonner carries a generator, all his gear, and tows his 4 ton caravan as well. It comes in handy too for erecting and dismantling the swingboats.



Swing time! Twilight changes the everyday field into a fairyland of lights and music. Sam's swings carry children high into the magic air. Beside them, solid and shining, stands his stalwart Austin.

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### The small world of Smiths

Among those who live their life on wheels are the Smiths. A big family who travel together from Birmingham to Gloucester, from Hereford to Oxford, from Easter to October. Sam Smith, his wife and 14-year-old son are part of that small world.

On the fairground Sam runs 6 swingboats and 8 slot machines. On the road he drives a lorry with the family's 4 ton caravan in tow, and all the swingboat gear, slot machines and a small generator on board. The lorry is no ordinary vehicle, as Sam will proudly tell you. "It's the best motor was ever made. That motor will go forever and a day". The motor is a 1949 Austin 2 tonner.

### Sam's remarkable veteran

Before Sam Smith bought it, his Austin worked hard for the General Electric Co. Ltd., Birmingham. "I've had it 4 years now and I haven't spent a bean on it. She stands out all winter too and when it's time to go I push the button and we're off. Never have to use the handle."

What does Mrs. Smith say? "The lorry? It's a real good one. Yesterday it flew up that hill by Camden—never even got warm. It was lovely!"

"Never bother me, hills don't," Sam agrees. "The lorry just keeps pulling all the way. It's a pleasure to go anywhere, I wouldn't swap it for anything". He should know—he's been driving for 25 years now.

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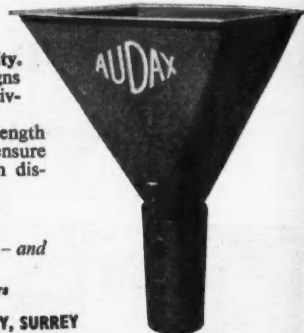
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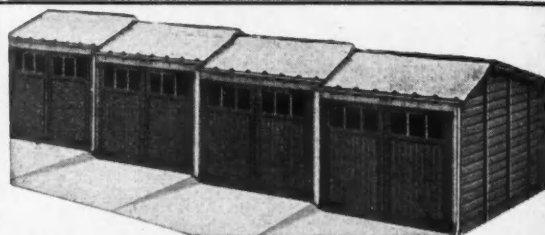


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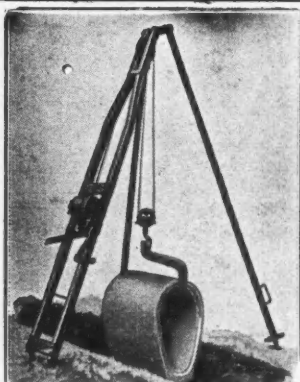
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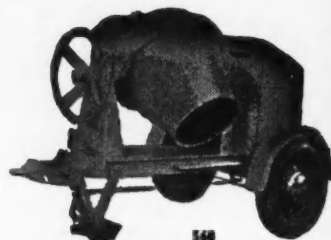
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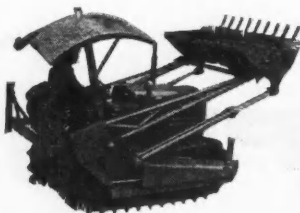
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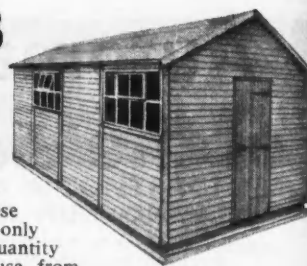
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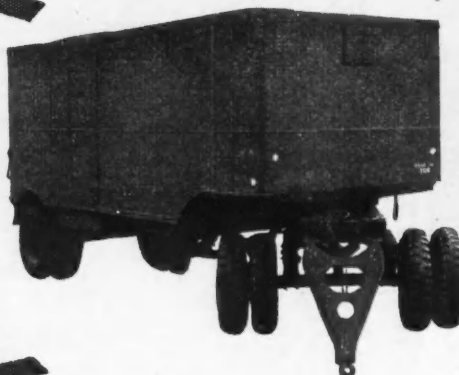
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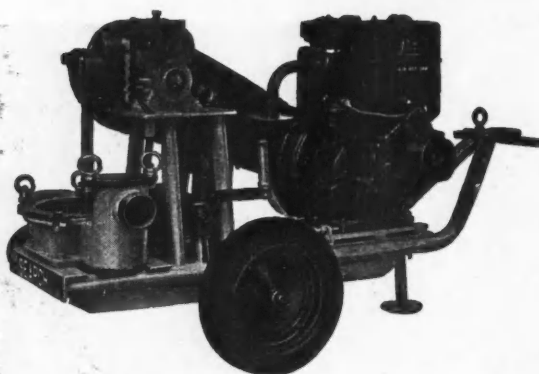
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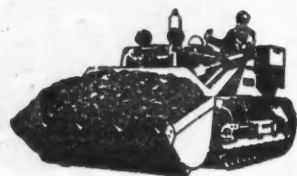
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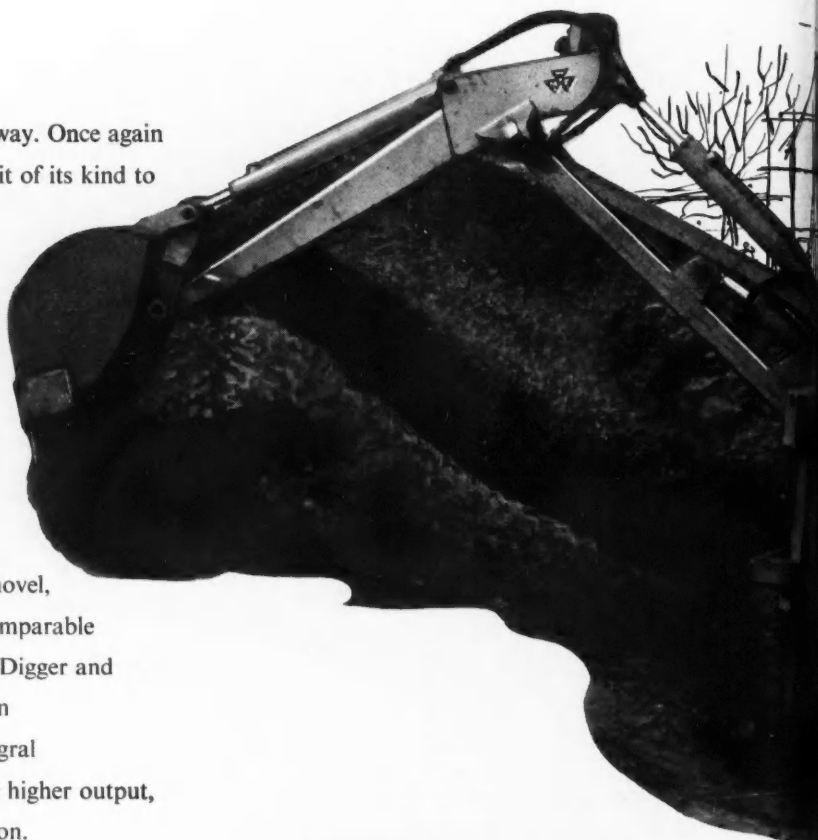
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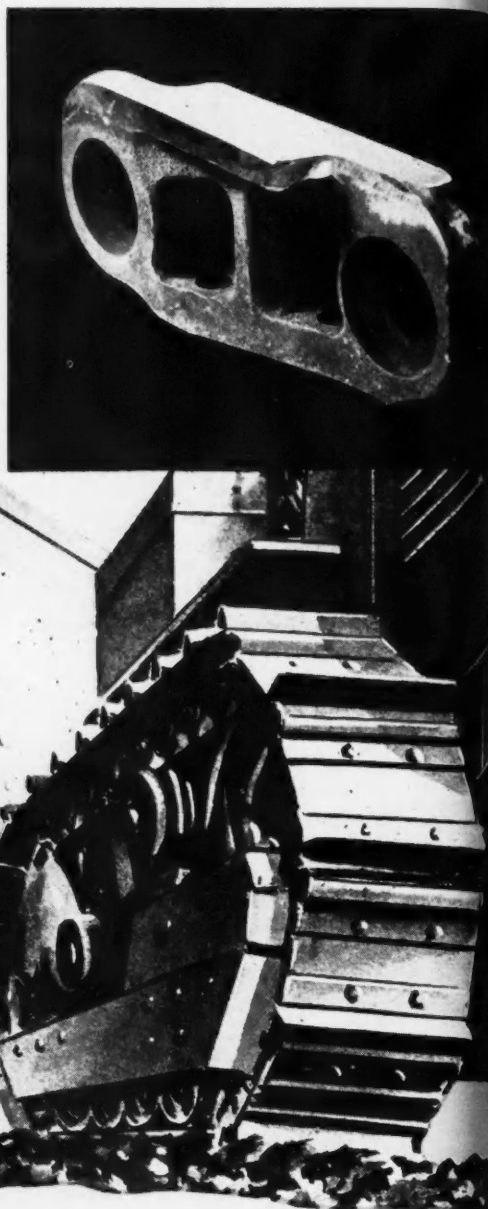
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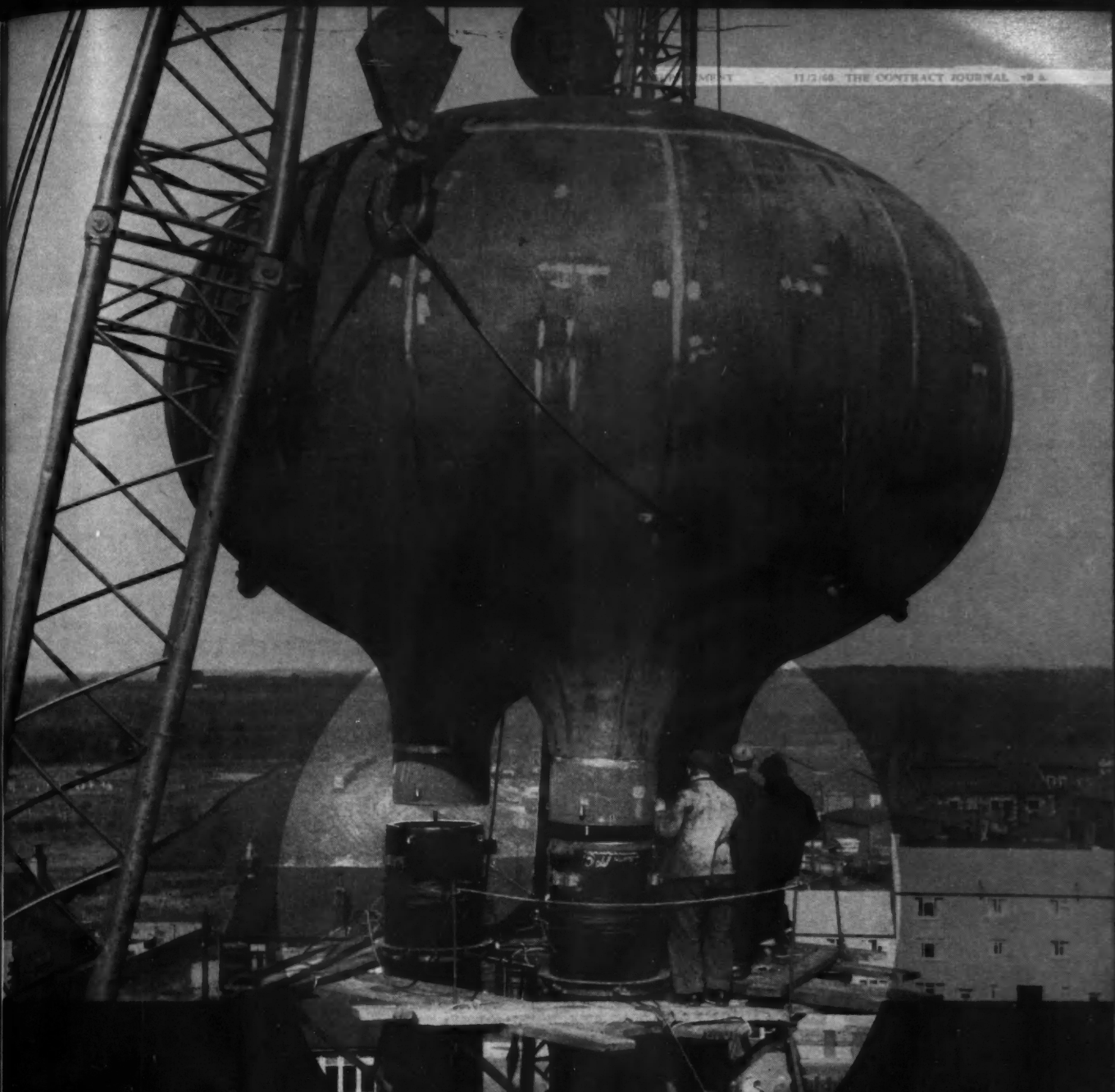
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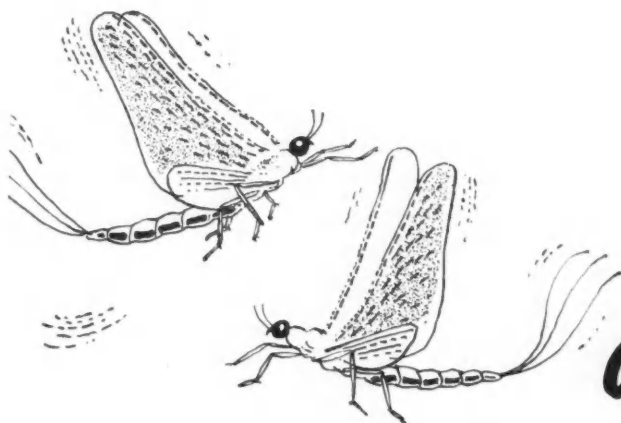
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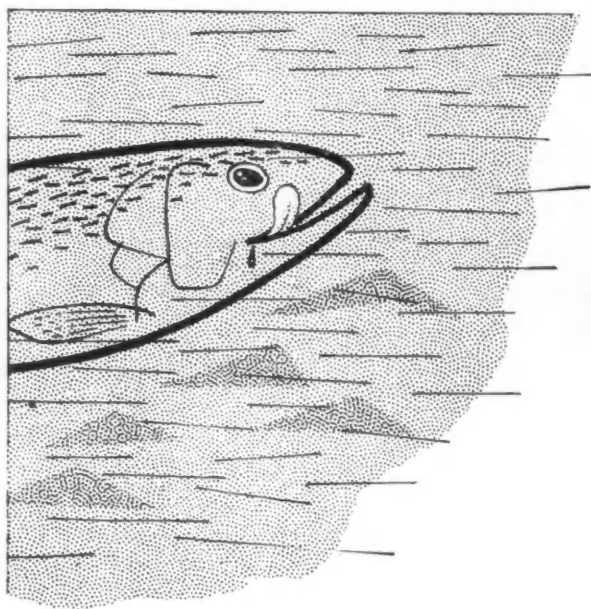
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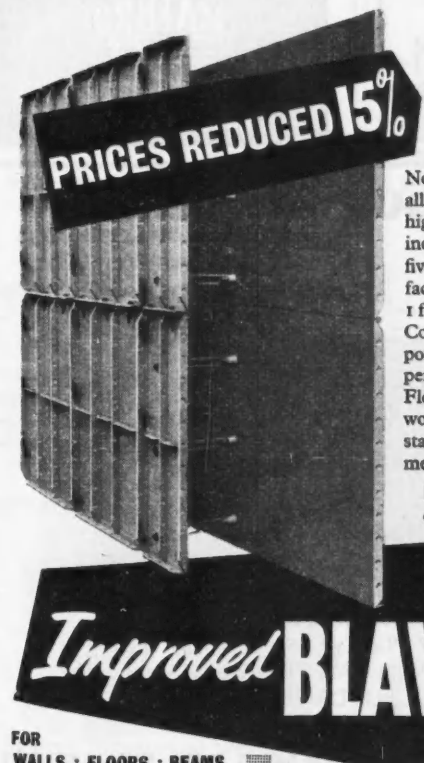
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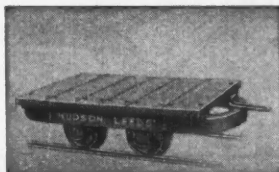
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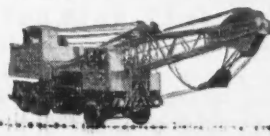
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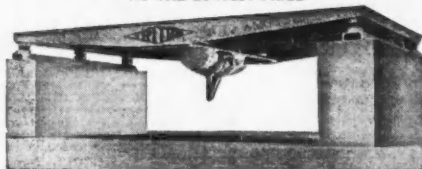
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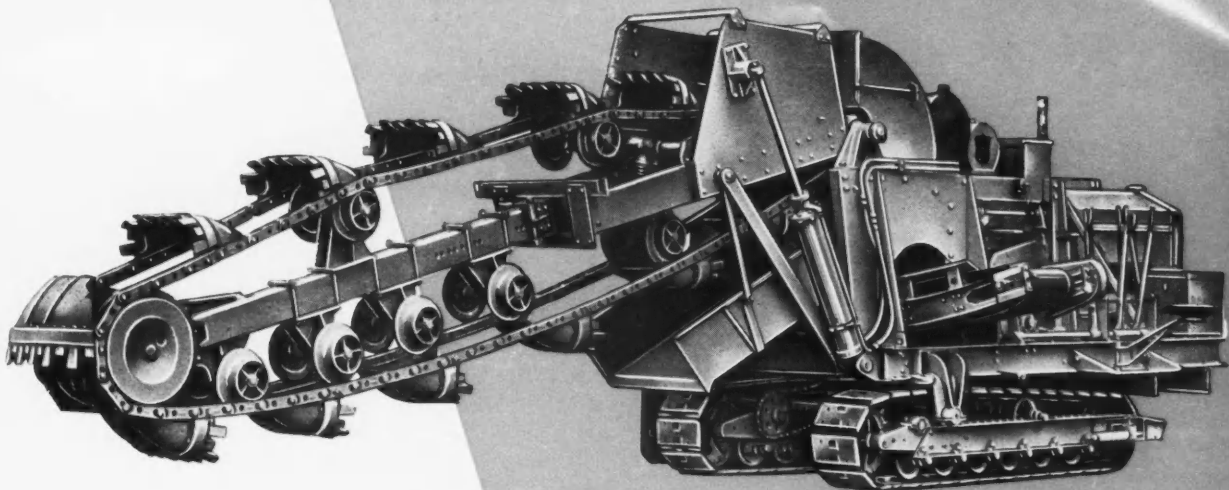
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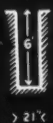
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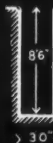
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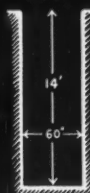
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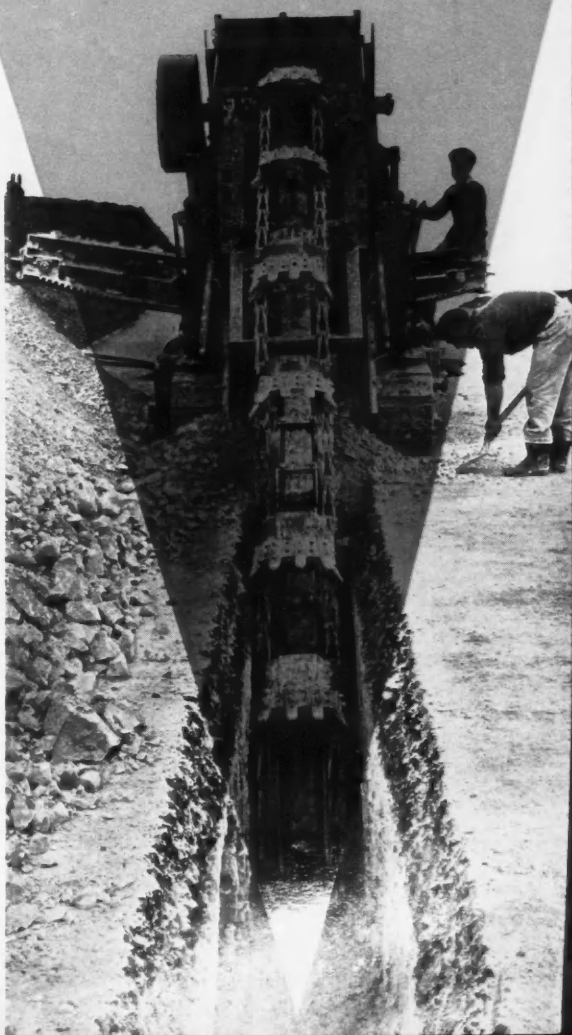
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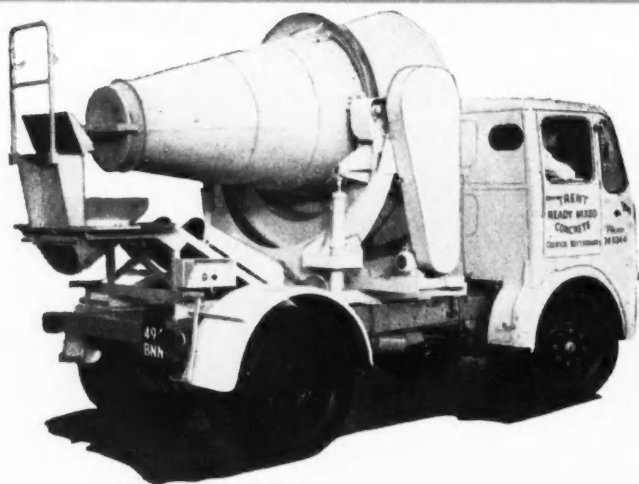
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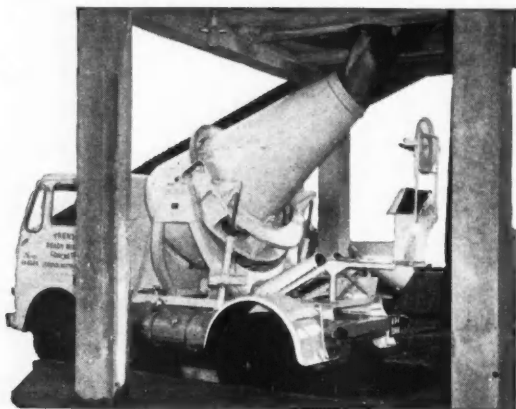
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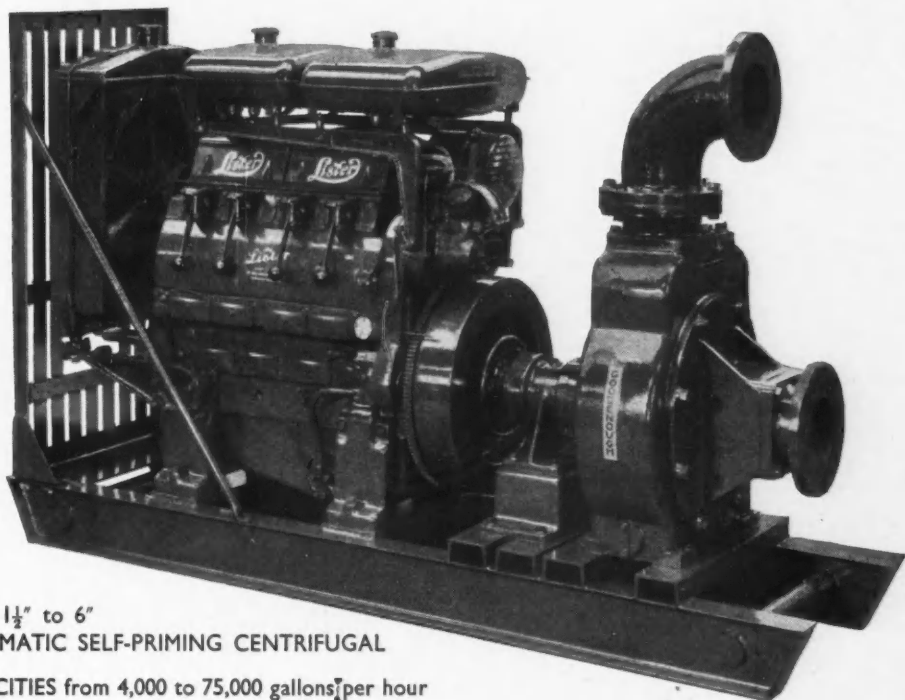
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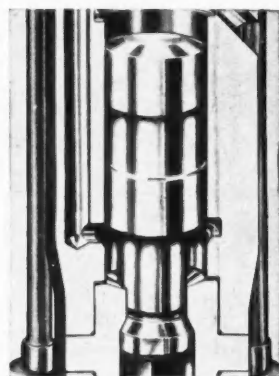
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ensures that the Speedline piston *never* strikes the front head. A cushion of air absorbs the blow, eliminating the jarring shock and vibration that encourage wear and breakage. Precise porting, timing and metering of this air cushion by the DUAL VALVE ensures that piston momentum is absorbed only after it has delivered full impact to the drill steel. In addition to reducing wear and maintenance costs, 'controlled cushioning' provides smooth operation and easy handling.



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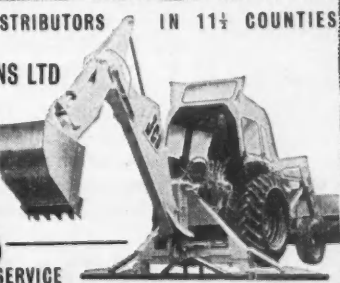
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Buildmaster 60/150 Tower Crane, new 1953. Standard curve travelling model, four-motor electric drive, suitable for 415/3/50 supply, 360-degree slew in either direction. In good condition	£1,500
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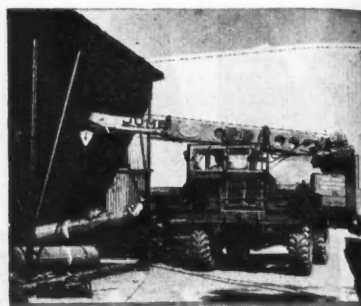
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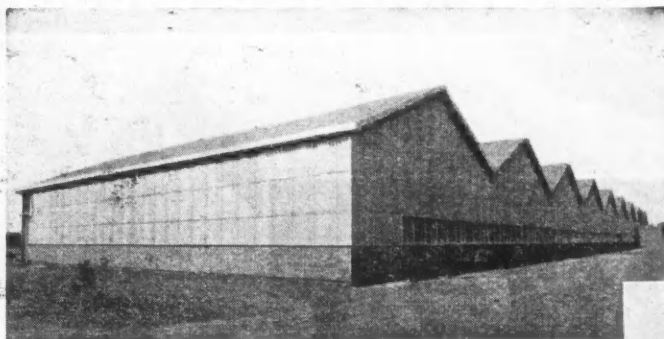
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*Photos courtesy Esso Petroleum Co. Ltd.*

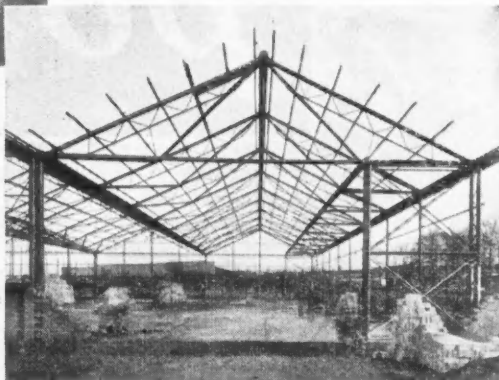
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## For Dunlop Rubber Co. Ltd., TUBULAR STEELWORK

The illustrations show a factory, built for the Dunlop Compositions division at Castle Bromwich.

The tubular steelwork was site welded by Tubewrights Ltd., and the nine bays, each 90 ft. x 40 ft.—an area of 32,000 square feet—were lifted into position in 3 days. Photographs by courtesy of Dunlop Rubber Co. Ltd., Architects S. Bentley, Esq.



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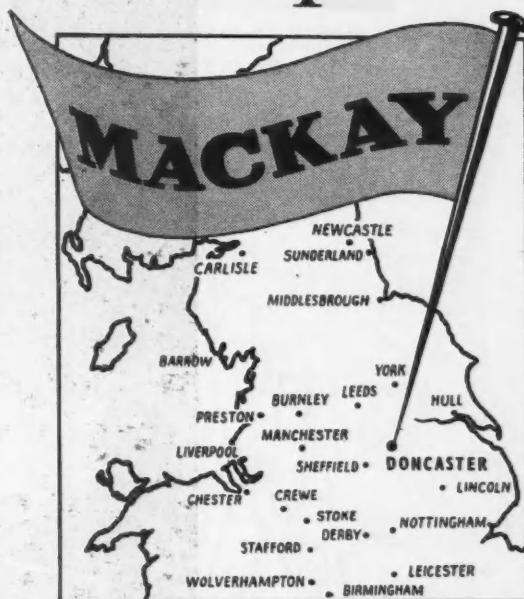
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Many Consolidated Pneumatic "Power Vane" portable rotary air compressors are in service at Hinkley Point.

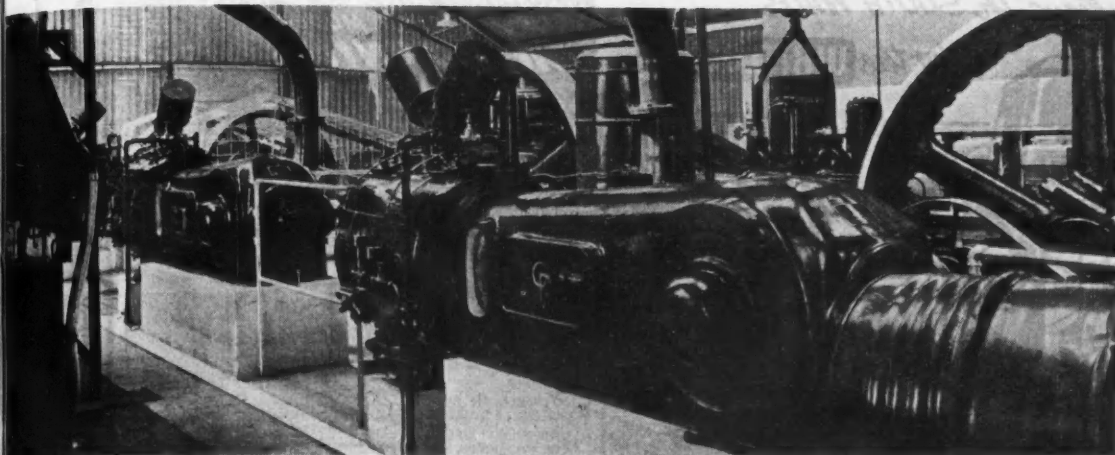
*At Hinkley Point Atomic Power Station*

# CP equipment is working



Difficult conditions for drilling, but all in a day's work to the Consolidated Pneumatic G-800 Tracdrill, shown drilling 4" holes to 40-ft in hard shale and limestone to clear a channel for the floating caisson.

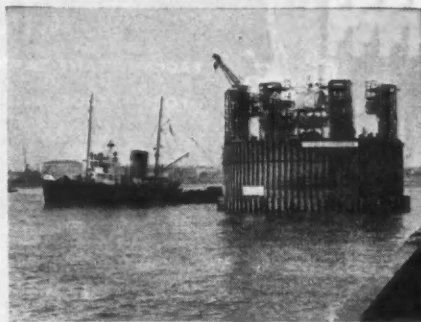




The main compressor house carries an installation of Consolidated Pneumatic Class "T" Stationary Compressors for low pressure air.

## ghard for Taylor Woodrow...

Wherever big construction projects are going on, invariably CP air compressors and power tools will be found hard at work on the site. A good example of this is to be seen at Hinkley Point Atomic Power Station which is being built for the Central Electricity Generating Board by The English Electric, Babcock & Wilcox, and Taylor Woodrow Atomic Power Construction Company Limited. The civil engineering contractors, Taylor Woodrow Construction Limited are using a big proportion of CP equipment for every type of duty, not only to save time and man-power but also to maintain their high standards. These pictures will illustrate the complexity of operations being carried out at Hinkley Point. The excellent progress achieved by Taylor Woodrow reflects in some measure the efficiency of the CP equipment they have chosen for this work.



The floating caisson being towed out to its location at the seaward end of the tunnel. Three Consolidated Pneumatic "Power Vane" rotary compressors were installed in the caisson.



A CP pneumatic chain saw proves a great time saver for the many timber construction jobs occurring on a big contract.



Removal of water is a frequent problem on contracting work. The rugged CP-77 Sludge Pump can be relied upon for continuous duty in the roughest conditions.



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Suppliers in SOUTH WALES

for the **WHITLOCK**

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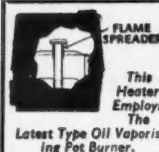
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**WORTH £30**

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**STORAGE  
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adaptor with  
control valve

**BOILING  
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- ★ COMPLETE WITH 5 SECTIONS OF 4in. STOVE PIPE, COWL, 13ft. length of flexible fuel hose and lighters not normally supplied with this type of heater and worth 42/6 alone.
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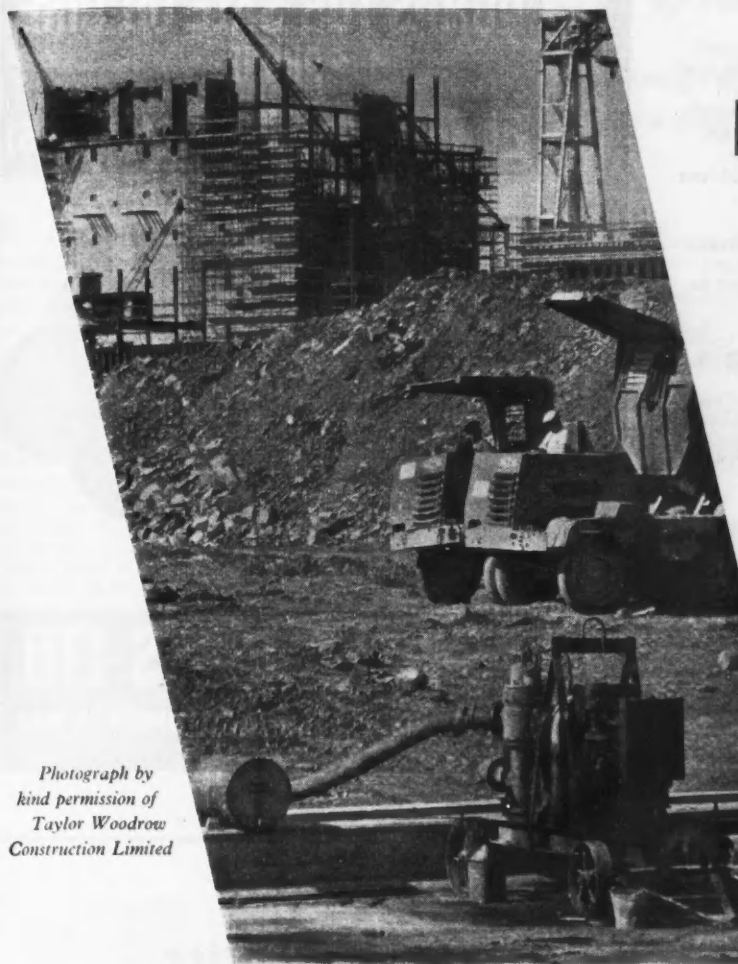
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Taylor Woodrow  
Construction Limited

## In the forefront at Hinkley Point

# SYKES

## UNIVAC PUMPS

### HENRY SYKES LIMITED

53b Southwark Street, London, S.E.1.  
Telephone: Hop 5231 (8 lines)  
Telegrams: Tripulse, Sedist, London

In the construction of the world's largest atomic power station by The English Electric, Babcock & Wilcox and Taylor Woodrow Atomic Power Construction Co. Lt.!, Univac pumps have been in constant use since the outset. These self-priming unchokeable centrifugal pumps were employed during the construction of the 3,500 ft sea wall, work which was carried out under tidal conditions.

Univacs were also used for ballasting the floating caisson and in the construction of the outfall. At Combwich, where a wharf was built for unloading heavy machinery, Univacs were used for jetting slurry, for which they were particularly valuable because of their ability to handle 50% or more solid content. The Univac pumps in use at Hinkley Point are of 4", 5" and 6" sizes.



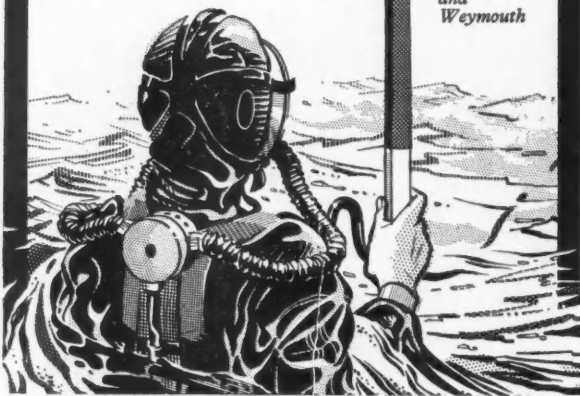
## Man with an easy job

He's lucky this week... he's only chilled and stiff. Last month was tougher; then he crawled fifty yards up a twenty-four-inch sewer to clear a valve... forty feet below the surface. He doesn't scare easily. He's a crack frogman of Universal Divers. He's a fully-experienced oxy-arc welder and cutter. He's also been an underwater stonemason. He can carry out a submarine survey in nil visibility. He's skilled in using explosives. He's one of a team of Universal divers and frogmen who can report anywhere in the British Isles at a few hours' notice. Next time you need a diver in a hurry — send for Universal.

### UNIVERSAL DIVERS LTD

40 NORTH JOHN ST · LIVERPOOL 2  
CEN 4226

Also at  
Newcastle  
and  
Weymouth



## PUMPS FOR SALE OR HIRE

PHONE:

**ELGAR 6757 (4 LINES)**

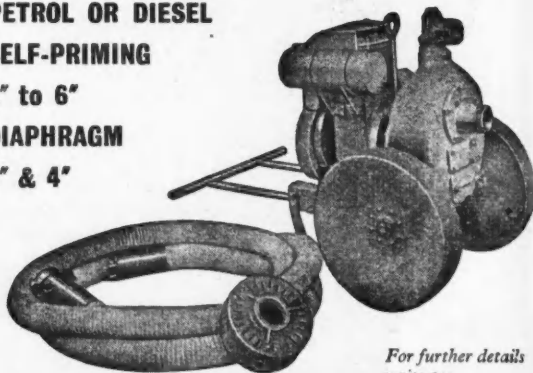
PETROL OR DIESEL

SELF-PRIMING

2" to 6"

DIAPHRAGM

3" & 4"



For further details  
write to:

## LEWIS & LEWIS LTD

SCHOOL RD., NORTH ACTON, LONDON, N.W.10

## A NEW Mixer by Stothert & Pitt —the 7T HYDRAULIC

This entirely new S & P machine sets new high standards for small tilting mixers. The 7T Hydraulic produces high quality concrete quickly and at economical cost. Manual operation has been slashed to a minimum.

Outstanding features include:

- ★ Fingertip control ★ 7 cu. ft. mixed batch capacity ★ All steel drum
- ★ Hydraulic drum rotation ★ Accurate and easy water control
- ★ Exceptionally high angle skip discharge ★ High (3' 6") drum discharger
- ★ And pushbutton controlled scoop with power erected jib.

Three point support combined with Ackermann steering results in great manoeuvrability. Weighing just over 1½ tons the machine can quickly be adapted for towing. Never before has such a competent small mixer been available to contractors. Please write for full specification and descriptive literature.

### STOTHERT & PITT LIMITED ENGINEERS • BATH • ENGLAND

London Office: 38 Victoria Street, S.W.1  
Midland Office: Gt. Western Bldgs., 6 Livery St., Birmingham 3



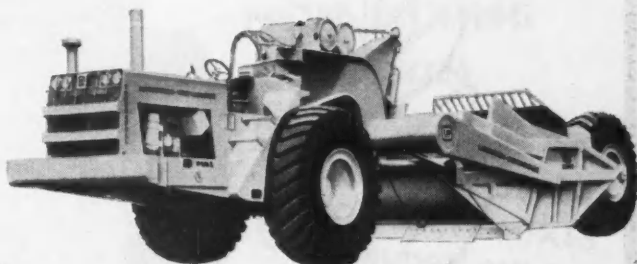
## Proven money-makers for years ...now better than ever

**LW equipment improved; new haulers  
and 6-wheel scraper added to line**

When is the last time you looked at new LeTourneau-Westinghouse earthmoving machines? *If more than a few months ago, you no longer have the full story on how these improved machines can increase your production and help reduce your costs!*

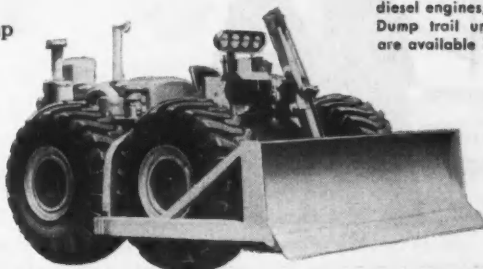
Through the years, LW Tournapulls, Rear-Dumps, graders, and tractors have proved profitable for their owners. And through a continuous program of product development these pioneer machines have been constantly improved. Greater power, bigger capacities, faster speeds, have characterized this development, and today the LW "line" offers outstanding advantages which you should investigate.

In addition to the introduction of a 360-hp B Tournapull and a 270-hp V-engine "C", LeTourneau-Westinghouse has added two important new machines: the Haulpak truck, and the 37.7 mph, 20 yd 6-wheel Speedpull. You will find this modern line of LW earthmovers much to your satisfaction.



### Tournapull Scrapers

Self-powered rubber-tyred scrapers with 28 yd, 20 yd, and 9 yd heaped capacities; 360, 270, 143-hp diesel engines; speeds up to 54 kph. Rugged Rear-Dump trail units, interchangeable with scrapers, are available in 11, 22, 35 ton capacities.



### Tournatractor

218-hp rubber-tyred tractor drives over highways or cross-country at speeds to 17 mph; accomplishes twice as much work as crawlers on 85% of your pushing, pulling jobs.



### LW Motor Graders

80, 115, 123, and 160-hp LW graders have 8 forward speeds, 4 reverse speeds and 3 optional extra-slow creepers; 145 and 190-hp models are equipped with torque converter. 67-hp model also available.

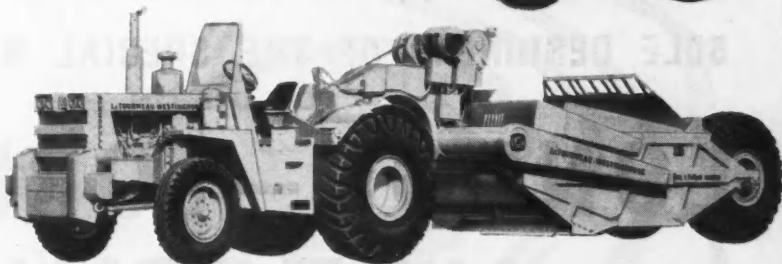
### LW Haulpak Truck

22, 27, and 32 ton capacities with engines of 320, 335, and 375 hp. These rugged trucks haul up to 30% more than their own weight, need no springs because they ride on Hydrair suspension. They make non-stop U-turns in far less space than conventional trucks and lube check of just 4 grease fittings is needed only at 500-hr intervals. Many parts interchangeable.



### LW Speedpull

This six-wheel scraper gives you excellent performance on long-haul assignments. Speedpull has 276 hp, 20 yd heaped capacity, 37.7 mph speeds, best power-to-weight ratio, Hydrair suspension and many other LW advantages.



Hydrair—Trademark; Tournatractor, Tournapull, Haulpak, Speedpull—Trademark Reg. U.S. Pat. Off. LA-2210-DC-1c



# JACK OLDING

HATFIELD · HERTS

Telephone: HATFIELD 2333

JACK OLDING & CO. (SCOTLAND) LTD., Coupar Angus, Perthshire



LeTOURNEAU-WESTINGHOUSE COMPANY Export Division, Peoria, Illinois, U.S.A.  
[Subsidiary of Westinghouse Air Brake Company.]



## Things looking up?

Business grows. Add a new machine.

And grows and grows. Add a couple more.

Sounds simple—till you start wondering where the money's coming from.

That's where UDT comes in. UDT helps you replace old equipment, add new, out of income. Which often means it pays for itself out of increased profits.

A nice businesslike way to do business.

If you think UDT could help you, get in touch with the Manager of your nearest UDT office—the address is in your local directory.

**United Dominions Trust  
(Commercial) Limited**

*United Dominions House,  
Eastcheap, London EC3*

# Kelvin

**THE OLDEST ESTABLISHED ROAD FORM MANUFACTURERS**

**PATENTEES OF THE FAMOUS**

**RETRACTABLE CAPTIVE DOWEL LINK CONNECTION**

**SOLE DESIGNERS OF THE SPECIAL HAUNCHING FORMS  
FOR USE ON THE**

# LONDON—YORKSHIRE MOTORWAY

Sole Agents in United Kingdom for Kelvin Pathfinder Steel Roads Forms, Compactors Engineering Ltd., Lockfield Avenue, Brimsdown, Enfield, Middx.

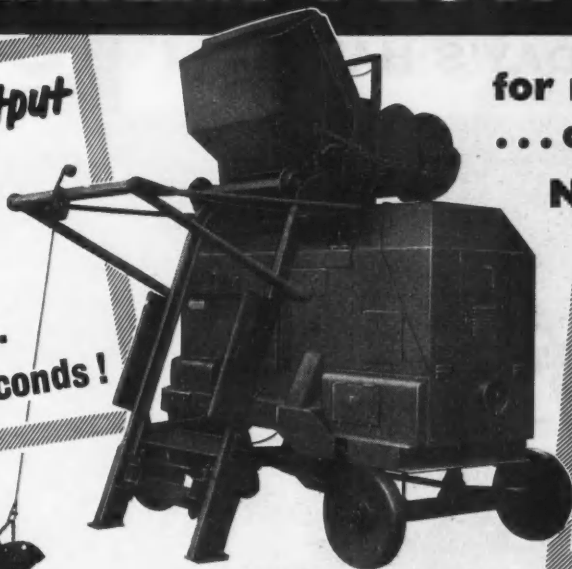
**JAMES GRUNDY & CO. LTD., KELVIN STEELWORKS, ST. HELENS, LANCs.**

**Tel: ST. HELENS 3004.**



# The PARKER 'PLOW-MIXER'

**Doubles output  
Gives the  
fastest  
mix—  
10 cu. ft.  
in 30 seconds!**



**for mixing concrete  
... designed with a  
NEW MIXING  
ACTION**

**WILL MIX USUAL  
CONCRETE MIXES  
SEMI-DRY MIXES  
LEAN MIXES  
STABILISED SOILS**

14 CU. FT. IN — 10 CU. FT. OUT

Write for Publication 594—see how Parkers solve today's mixing problems.  
'Power-scoop' Loading and Weigh Batching equipment are available.

FREDERICK **PARKER** LIMITED

**VIADUCT WORKS LEICESTER**

PHONES: LEICESTER 62531 (10 LINES)

LONDON: STAFFORD HOUSE, NORFOLK STREET, W.C.2

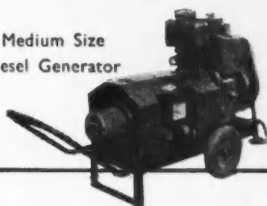
Depots at London, Cardiff, Sedgley (nr. Wolverhampton), Leeds and Glasgow.

**200 CYCLE**

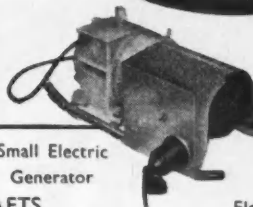
**ALLAM**

**INTERNAL VIBRATOR**

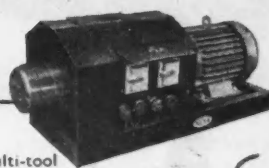
Medium Size  
Diesel Generator



Small Electric  
Generator



Multi-tool  
Electric Generator



Small Petrol  
Generator



## ELIMINATING FLEXIBLE SHAFTS

A size of Vibrator and Generator to  
suit the smallest and largest Contract

AN ALL-BRITISH MACHINE

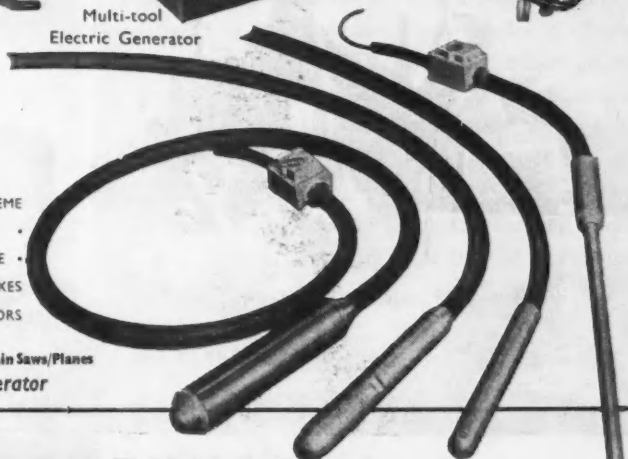
## OUTSTANDING ADVANTAGES

- LIGHT BUT VERY POWERFUL • NO FLEXIBLE SHAFT YET EXTREME FLEXIBILITY IN OPERATION • SAFE LOW WORKING VOLTAGE • FREQUENCY OF 12,000 R.P.M. COMBINED WITH LARGE AMPLITUDE • PROVED EXCEPTIONALLY HIGH COMPACTION OF VERY HARSH MIXES • VIBRATORS CAN OPERATE OVER 200 FEET AWAY FROM GENERATORS

AVOIDING MOVEMENT OF HEAVY EQUIPMENT

Now available with hand tools—comprising Grinders/Sanders/Circular Saws/Chain Saws/Planes

Only 4-Core Cable between Vibrator Switch and Generator



Send for further details of the full range :

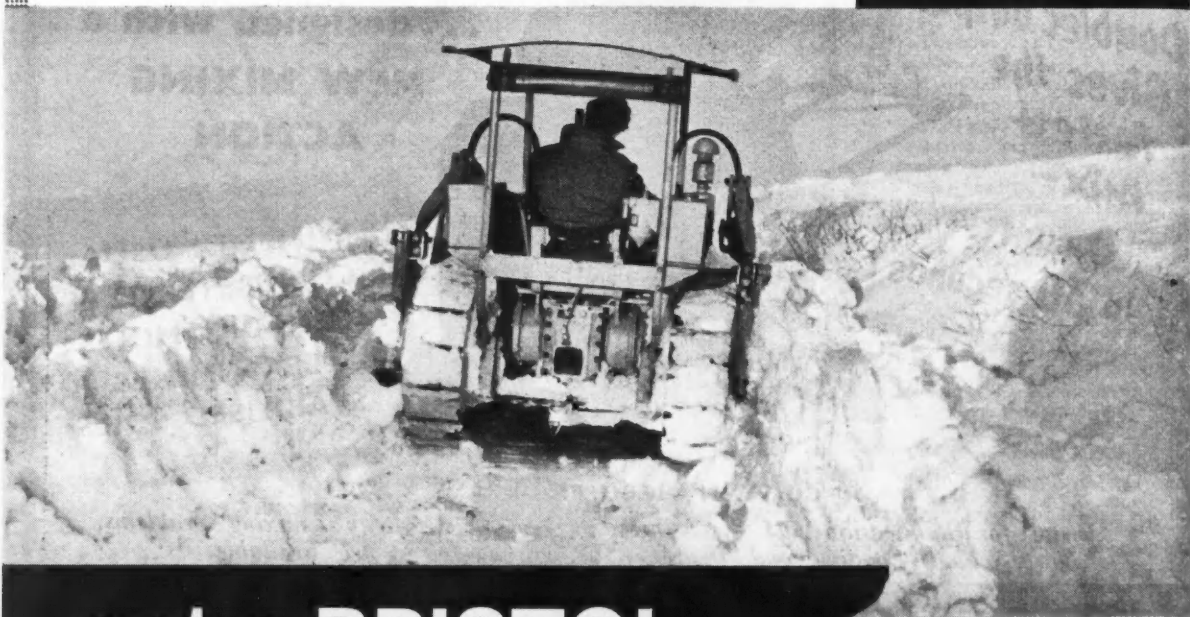
**E. P. ALLAM & CO. LTD.**

132-135 SLOANE STREET, S.W.1. TELEPHONE: SLOANE 9976 (5 lines)

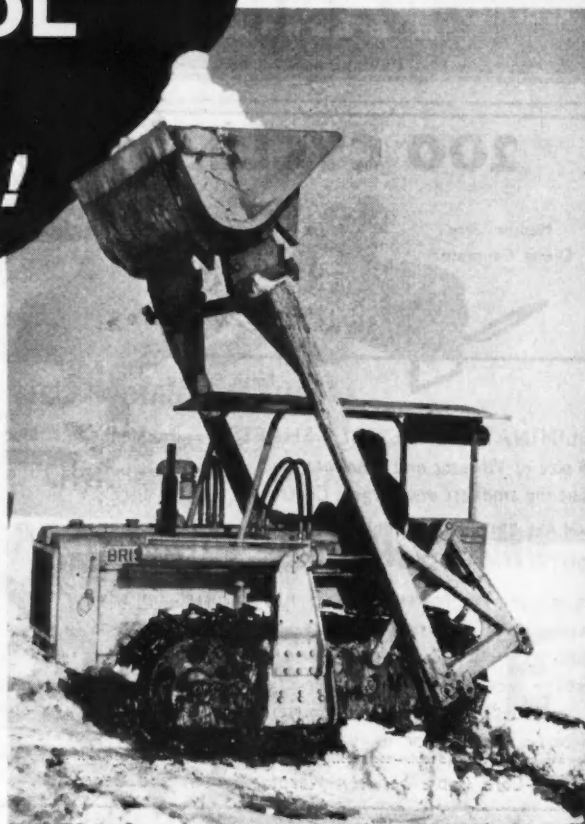
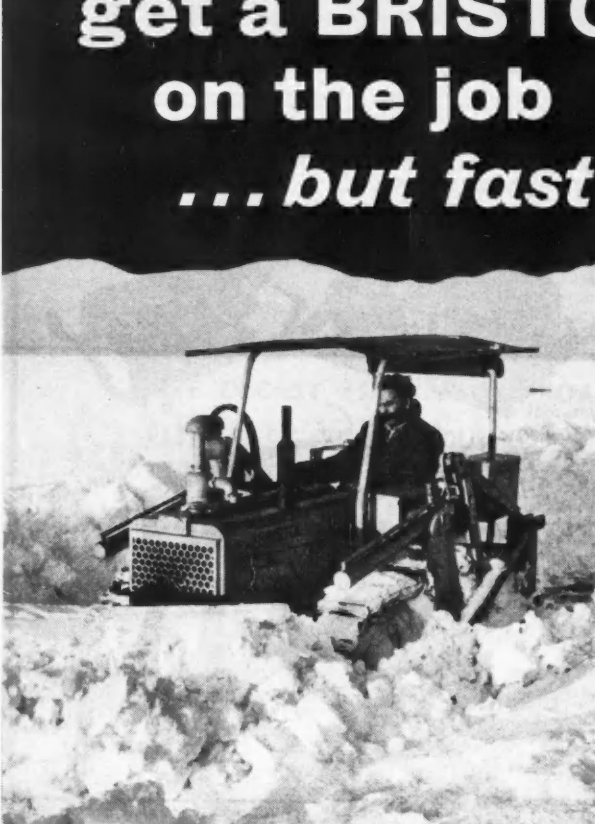
SCOTLAND: 39 CAVENDISH STREET, GLASGOW, C.5. TELEPHONE: SOUTH 0186

STRANGFORD, LTD., Belfast and Dublin  
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Nottingham.  
JOHN ROULSTONE, LTD., Newcastle upon  
Tyne.  
W. R. SELWOOD, Chandler's Ford, Hants.

## Yesterday's Forecast ... — TODAY'S HAZARD



**get a BRISTOL**  
**on the job**  
*...but fast!*



### H. A. SAUNDERS LIMITED

INDUSTRIAL TRACTOR DIVISION

836-842 HIGH ROAD, NORTH FINCHLEY, LONDON N.12

Tel: HILLside 5272 (8 lines) Grams: Dutrax, London N.12

# Combined

## PUMP ENGINE

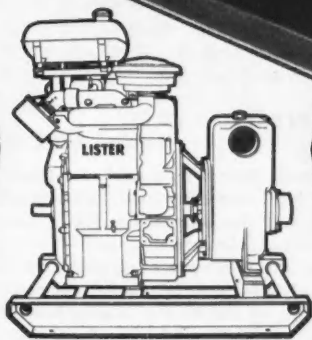
# Efficiency



**MORE COMPACT**

**MORE EFFICIENT**

**LESS MAINTENANCE**



Direct close-coupling, hitherto associated with small pump sets, has now been applied to the larger size Pegson Marlow Self-Priming Centrifugal Pumps powered by Lister diesel engines. This new design eliminates couplings, separate drive shafts, outer bearings, etc., makes the pump set more compact (see illustration left), increases efficiency and reduces capital and maintenance costs.

Pegson Marlow Pumps are just the job if you require a compact, highly efficient, dependable unit—and, of course, all those features that make Pegson Marlow a first choice in pumps are still retained.

Write now for full details.

# PEGSON

## MARLOW

### Self-priming centrifugal pumps

Built within the Bentley Group by

**PEGSON LTD., COALVILLE, LEICESTERSHIRE** Telephone: Coalville 1234 (10 lines)

London Office: Iddesleigh House, Caxton Street, S.W.1. Tel: Abbey 2373

Scottish Office: 7 Lister Road, Hillington Industrial Estate, Glasgow. Tel: Halfway-1800



## Buildmaster Cranes

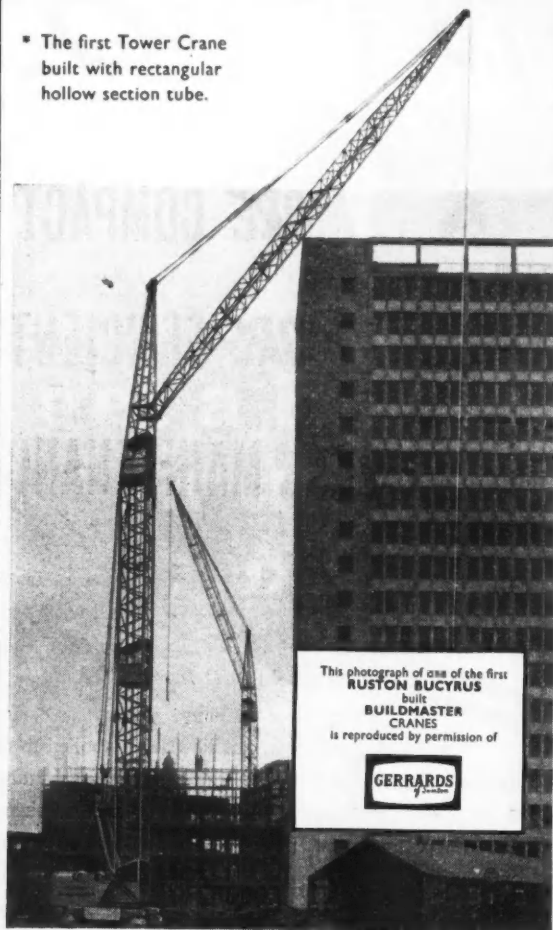
*—Still ahead*

British  
built  
by

**RUSTON -  
BUCYRUS**

**THE CRANE OF ADVANCED DESIGN ★**

- The first Tower Crane built with rectangular hollow section tube.



This photograph of one of the first  
**RUSTON BUCYRUS**  
built  
**BUILDMASTER**  
CRANES  
is reproduced by permission of



Buildmaster Tower Cranes are being batch produced  
in the RUSTON-BUCYRUS works at Lincoln  
for delivery in the spring of 1960

**DEMAND IS ALREADY HEAVY - ORDER NOW TO MINIMISE DELAY**

ENQUIRIES TO :-

**ABELSON**

& CO. (ENGINEERS) LTD.

Tel: SHEldon 2424 (10 lines) grams: Abelson, Birmingham

**SHELDON - BIRMINGHAM 26**

London Office: 60-62 Clapham Rd. Manchester Office: 100 Oxford Rd.  
London, S.W.9 Tel. RELiance 7081 Manchester. Tel. ARDwick 1328



**PERSONNEL ADMINISTRATION LIMITED**  
MANAGEMENT CONSULTANTS

*Our Appointments Division has been asked to advise on the following posts :-*

### **GENERAL MANAGER Civil Engineering Contractors**

for a well-known Civil Engineering contracting organisation with headquarters in the Home Counties. He will be responsible for the direction and administration of the Company's activities throughout England and Wales. Starting salary up to £3,000 with company car and contributory pension. Future financial prospects for a successful man are attractive, and early appointment to the Board is envisaged. Applicants, between the ages of 40 and 45, should hold a professional qualification in civil engineering and have wide management experience in the contracting field. (Ref. 3353/CJ)

### **CONTRACT CONTROL ACCOUNTANT**

**Civil Engineering: Iran**

for an American consulting engineering organisation carrying out extensive construction work in South-West Iran. He will be responsible to the Project Engineer for the control and recording of costs and quantities on a major hydro-electric scheme. Applicants should be aged 25-40, and must offer a minimum of six years' on-site contract control experience and a thorough knowledge of construction materials. Ability to speak Italian would be a great advantage. Starting salary up to £2,300 including allowances. Free first-class travel to Iran and during leave periods. (Ref. 3349/CJ)

### **GENERAL MANAGER**

**Engineering: Surrey**

for a firm manufacturing a variety of machinery and equipment for public authorities and the contracting industry. The Company is a subsidiary of a well-known group and is located in a pleasant Surrey town. Applicants should be aged 35 to 40, A.M.I.Mech.E., and have substantial experience of production management in this or an allied industry, preferably preceded by relevant design experience. Starting salary around £2,000, plus contributory pension. There are excellent prospects of promotion to Board level. (Ref. 3354/CJ)

### **LONDON REPRESENTATIVE**

**Building and Civil Engineering**

for a soundly based provincial company engaged on industrial, local authority and Governmental work in various parts of the United Kingdom. Existing contacts with Government departments, architects and consulting engineers in the London area, hitherto handled by directors, will be handed over for further development. Candidates, between 40 and 50, should have broad experience of the industry rather than specialised qualifications; a good personality is essential and evidence of existing contacts would be welcome. The starting salary will be around £1,750. (Ref. 4356/CJ)

*The identity of candidates will not be revealed to our clients without their prior permission.*

*For the convenience of clients and candidates we have Regional Offices in Glasgow, Manchester and Birmingham but, in the first instance, applicants should forward brief details, quoting the reference number, to:-*

**PERSONNEL ADMINISTRATION LIMITED**  
APPOINTMENTS DIVISION  
2 ALBERT GATE, LONDON, S.W.1.

## CONTRACTS

ROYAL COUNTY OF BERKSHIRE.  
RECONSTRUCTION OF BROAD LANE (PART).  
BRACKNELL.

TENDERS are invited for the RECONSTRUCTION of PART of BROAD LANE, Bracknell, a length of 530 lin. yd. The Scheme provides for approx. 1,350 cu. yd. of Excavation, Concrete Foundations, Gravel Asphalt Surfacing, Kerbing, Footways, Drainage, and incidental works.

Drawings may be inspected at, and Conditions of Contract, Specification, Bills of Quantities and Form of Tender obtained from, the COUNTY SURVEYOR, Shire Hall, Reading, on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be returned in the envelope provided not later than 9 a.m. on THURSDAY, 18th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

BOROUGH OF MAIDENHEAD.  
SEWAGE WORKS EXTENSION—STAGE II.  
CONTRACT NO. 3.

The COUNCIL invites TENDERS for the CONSTRUCTION of FOUR 55ft. dia. REINFORCED CONCRETE TANKS; FOUR 100ft. dia. FILTERS; a PUMPING STATION approx. 22ft. x 10ft. approx. 150 lin. yd. of CONCRETE ROAD, the PROVISION and LAYING OF SPUN-IRON AND CONCRETE PIPES of 4in. to 33in. dia., and all incidental works.

Drawings may be seen at, and Tender documents obtained from, the Office of the Borough Engineer and Surveyor, 14 Crauford Rise, Maidenhead, on payment of a deposit of Three Pounds, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Sewage Works Extension—Stage II, Contract No. 3," and bearing no mark or indication of the sender, must be delivered to me not later than Noon on THURSDAY, 10th March, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,  
Town Clerk.

Guildhall,  
Maidenhead, Berks.  
January, 1960.

## BEDWORTH URBAN DISTRICT COUNCIL.

EXHALL INDUSTRIAL SITE—CONTRACT NO. 2.  
ROADS AND SEWERS—STAGE I.

Tenders are invited for CARRYING OUT the WORKS, which comprise the FOLLOWING:

- Roads with Footpaths, Kerbs and Surfacing: (a) 24ft. Carriageway, approx. 280 lin. yd. (b) With Kerb Foundation and Road Base only, 24ft. and 18ft. Carriageway, total length approx. 610 lin. yd.
- Hardcore Access Road, 12ft. wide approx. 215 lin. yd.
- Street Lighting and other ancillary Works.
- Sewers: (a) Foul Water Sewer—6in.-12in. dia. Salt Glazed Ware, approx. 600 lin. yd., complete with Brick and Precast Concrete Manholes.
- Surface Water Sewer—Spun-Concrete Pipe, maximum size 36in. dia., approx. 1,050 lin. yd., complete with Brick and Precast Concrete Manholes.
- The Restoration of Surfaces and the Maintenance of the Works for a period of 12 months.

Copies of the General Conditions of Contract, Specification, Bill of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES AND MCNALLY, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas (which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn), and the return of all documents and Drawings. Cheques must be made payable to Bedworth Urban District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m., and 2 p.m. to 5 p.m., Monday to Friday inclusive, at the Offices of the Consulting Engineers, and at the office of the Engineer and Surveyor, and the return of all documents and Drawings and documents can only be obtained from the Consulting Engineers.

NOTE.—The Tender, together with the priced Bill of Quantities enclosed separately, in the proper endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, Council Offices, Bedworth, not later than Noon on MONDAY, 14th March, 1960. Tenders and/or documents received after that time will not be considered. The Council do not undertake to accept the lowest or any Tender.

S. G. DEEMING,  
Clerk of the Council.

Council Offices,  
Bedworth,  
January, 1960.

## WARWICK RURAL DISTRICT COUNCIL.

## SHREWLEY SEWERAGE AND SEWAGE DISPOSAL SCHEME.

## CONTRACT NO. 12.

TENDERS are invited for the LAYING of 3½ miles of 9in. and 6in. SALT-GLAZED WARE SEWERS with CONCRETE TUBE MANHOLES and the CONSTRUCTION of an EJECTOR STATION and of SEWAGE DISPOSAL WORKS, comprising Reinforced Concrete Settling, Digestion and Humus Tanks, Biological Filters, Sludge Drying Beds, Works Pumping Station and Site Roads, Pipelines and Fencing.

The Work will be located in the neighbourhood of Hatton Junction, four miles west of Warwick.

The General Conditions of Contract, Specification and Bill of Quantities may be obtained from the Council's Consulting Engineers, MESSRS. J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufton Street, Westminster, London, S.W.1, on and after 19th FEBRUARY, 1960.

Applications must be accompanied by a deposit cheque for Ten Guineas, payable to the Council, which will be refunded only to contractors who submit bona-fide Tenders and return all documents and Drawings.

Sealed Tenders must be endorsed "Tender for Contract No. 12," bear no name or mark indicating the sender, and be delivered to the Office of the undersigned not later than Noon on 28th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. W. H. WATKISS,  
Clerk of the Council.

Council Offices,  
1 Warwick New Road,  
Leamington Spa,  
February, 1960.

## CONTRACTS

BOROUGH OF ROMFORD.  
LAND DRAINAGE WORKS—DAGNAM PARK.

TENDERS are invited for the CONSTRUCTION of about 4,500 lin. yd. of 3in. and 6in. LAND DRAINS, with ancillary works, at this Site.

Applications for Tender documents (accompanied by a cheque, value £2 2s., as deposit) should be made to Borough Engineer and Surveyor, Town Hall, Romford.

The closing date for the receipt of completed Tenders will be First Post, TUESDAY, 23rd February, 1960.

JOHN E. SYMONS,  
Town Clerk.

29th January, 1960.

BOROUGH OF DUNSTABLE.  
ANNUAL TENDERS, 1960-61.

The Council invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1961:—

- (1) Tarmacadam (Slag Aggregate).
- (2) Fine Cold Bitumen (Slag Aggregate).
- (3) Concrete Aggregates.
- (4) Building Sand.
- (5) Ashes.
- (6) Spent Ballast.
- (7) Precast Concrete Kerb.
- (8) Precast Concrete Flags.

Particulars and Forms of Tender may be obtained from the Borough Engineer and Surveyor at the address below.

Tenders, in a plain sealed envelope endorsed "Tenders for Materials" but bearing no distinguishing mark indicating the sender, are to be delivered to me not later than 12 Noon on SATURDAY, the 27th February, 1960.

JACK SMITH,  
Town Clerk.

Municipal Offices,  
Dunstable, Beds.  
4th February, 1960.

## BOROUGH OF LUTON.

## EAST HYDE SEWAGE DISPOSAL WORKS.

## MINOR CAPITAL WORKS—CONTRACT NO. 1.

TENDERS are invited for the FOLLOWING:—

- New 42in. dia. Pipe By-pass between Secondary Sedimentation Tanks and Aeration Tanks, approx. length 90 lin. yd.
- Structural Modifications to existing Asbestos-cement Press House.
- New Valve Chamber on 10in. dia. Sludge Main.
- Net Grit Settling Chamber for Humus Sludge.
- New Stored Sludge Pumping Station (capacity 200 g.p.m.) together with approx. 110 lin. yd. of 4in. x 6in. Cast-iron Sludge Main.
- Reconstruction of Weir Sills on existing Separating Tanks.

Documents from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender, not subsequently withdrawn, are payable to "Luton Corporation." Tenders to TOWN CLERK, Town Hall, Luton, by Noon, 26th FEBRUARY, 1960.

## URBAN DISTRICT COUNCIL OF BRAINTREE AND BOCKING.

## CANDLESTICK MEADOW, PANFIELD LANE.

TENDERS are invited for the CONSTRUCTION of ROADS, LAYING of KERBS and SEWERS at the ABOVE ESTATE. The Work consists of the FOLLOWING APPROXIMATE QUANTITIES:—

- 2,247 sq. yd. Reinforced Concrete Carriageway.
- 674 lin. yd. Precast Concrete Kerbs.
- 679 lin. yd. 6in. to 9in. Sewers, together with Manholes and Gullies.

Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Town Hall, Braintree, upon payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender and return of all documents. Plans and Conditions of Contract may be inspected at the Town Hall, Braintree.

Tenders, Specification and Bill of Quantities must be returned separately in the envelopes provided and delivered to the undersigned at the Town Hall, Braintree, before Noon on FRIDAY, the 26th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. BALSON,  
Clerk of the Council.

## ULVERSTON RURAL DISTRICT COUNCIL.

## PROVISION OF NEW COUNCIL OFFICES.

Enquiries are invited from builders desirous of TENDERING for the CONVERSION of the DETACHED RESIDENCE known as "TODBUSK," situate at SPRINGFIELD ROAD, Ulverston (North Lancashire), into OFFICE ACCOMMODATION for the ABOVE NAMED COUNCIL.

A brief outline of the Work involved will be supplied in the first instance, and if the contractor should then wish to submit a Tender, the necessary documents and Drawings will be supplied.

Names and addresses must be lodged with the undersigned by First Post on THURSDAY, the 18th February, 1960.

F. D. YOULE,  
Clerk of the Council.

Clerk's Department,  
Town Hall,  
Ulverston, Lancs.

## LEEDS REGIONAL HOSPITAL BOARD.

## TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT IMPROVEMENTS TO HEATING and HOT-WATER SERVICES in the ALMSHOUSE UNIT and TWO VILLAS at MENSTON HOSPITAL, near Leeds.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on WEDNESDAY, 10th February, 1960. Cheques should be made payable to the Leeds Regional Hospital Board and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the Office of the Architect to the Board, or at the Office of MESSRS. E. GRIFFITHS AND SON, Consulting Engineers, Kinders, Bromborough, Cheshire.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 9th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,  
Secretary to the Board.

Park Parade,  
Harrowgate, Yorks.

## CONTRACTS

GRAVESEND BOROUGH COUNCIL.  
ANNUAL SUPPLIES—1960-61.

The Council invite TENDERS for the SUPPLY of ARTIFICIAL STONE PAVING and KERBING for the year commencing 1st April, 1960.

The Works consist of 300 lin. yd. of 33in. dia. Concrete Tube Sewer in Rocks Lane (A.306); 63 lin. yd. of 27in. dia., 110 lin. yd. of 24in. dia., 90 lin. yd. of 21in. dia. and 167 lin. yd. of 18in. dia. in Church Road (A.303). Barnes, together with the Construction of Manholes, and ancillary Works.

The Form of Tender, Bill of Quantities and Specification may be obtained from the undersigned, to whom they should be returned, in the envelope provided, not later than First Post, FRIDAY, 26th February, 1960.

W. R. SHEPHERD, M.I.Mun.E., F.R.I.C.S.,  
Borough Engineer and Surveyor.

4 Woodville Terrace,  
Gravesend,  
February, 1960.

## BOROUGH OF BARNES.

## ROCKS LANE, A.306—SURFACE WATER SEWER.

TENDERS are invited from experienced civil engineering contractors for the ABOVE WORKS.

The Works consist of 300 lin. yd. of 33in. dia. Concrete Tube Sewer in Rocks Lane (A.306); 63 lin. yd. of 27in. dia., 110 lin. yd. of 24in. dia., 90 lin. yd. of 21in. dia. and 167 lin. yd. of 18in. dia. in Church Road (A.303). Barnes, together with the Construction of Manholes, and ancillary Works.

The Form of Tender, Bill of Quantities and Specification may be obtained from the undersigned, to whom they should be returned, in the envelope provided, not later than First Post, FRIDAY, 26th February, 1960.

W. R. SHEPHERD, M.I.Mun.E., F.R.I.C.S.,  
Borough Engineer and Surveyor.

Municipal Offices,  
Sheen Lane, S.W.14,  
25th January, 1960.

## CITY OF CARDIFF.

## CORPORATION WATERWORKS.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of a REINFORCED CONCRETE SERVICE RESERVOIR (capacity two million gallons), and ancillary works, at LECKWITH, near Cardiff.

The Works consist of 300 lin. yd. of 33in. dia. Concrete Tube Sewer in Rocks Lane (A.306); 63 lin. yd. of 27in. dia., 110 lin. yd. of 24in. dia., 90 lin. yd. of 21in. dia. and 167 lin. yd. of 18in. dia. in Church Road (A.303). Barnes, together with the Construction of Manholes, and ancillary Works.

The Form of Tender, Bill of Quantities and Specification may be obtained from the undersigned, to whom they should be returned, in the envelope provided, not later than First Post, FRIDAY, 26th February, 1960.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer. Completed Bills of Quantities are not to be submitted with the Tender, but must be sent, completed in ink, so as to be in the hands of the Water Engineer and Manager within three days after written request following the opening of the Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,  
Town Clerk.

City Hall,  
Cardiff,  
February, 1960.

## CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

## ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS:—

- Artificial Stone Kerbs.
- Artificial Stone Paving Slabs.
- Brooms.
- Cold Asphalt.
- Crushed Grit for Tar Spraying.
- Granite Chippings.
- Gully Grates and Frames.
- Hydrated Lime.
- Manhole Covers and Frames.
- Premix Mortar for Paving.
- Portland Cement.
- Protective Clothing.
- Sand.
- Tarred Kentish Ragstone.
- Tarred Slag Macadam.
- Tar, including Emulsion.
- Washed and Crushed Aggregate and All-in Ballast.

Tenders, on the prescribed forms, obtainable from the Surveyor, Manor House, The Green, Sidcup, on receipt of a stamped addressed envelope. Tenders must be delivered to the undersigned not later than the 29th FEBRUARY, 1960.

T. W. FAGG,  
Clerk of the Council.

Council Offices,  
Sidcup Place,  
Sidcup.

## DORKING AND HORLEY RURAL DISTRICT COUNCIL.

## HORLEY SEWAGE DISPOSAL WORKS EXTENSIONS.

## CONTRACT NO. 4.

TENDERS are invited from experienced contractors for the EXTENSION of the COUNCIL'S HORLEY SEWAGE DISPOSAL WORKS. The Contract includes the Construction of Circular Tanks in Reinforced Concrete, Extensions and Modifications to Two Existing Pumping Stations, and Alterations to Existing Units, etc.

Contractors desirous of tendering may obtain copies of the Form of Tender, General Conditions, Specification and Bill of Quantities from the offices of the Consulting Engineers, MESSRS. G. B. KERSHAW AND KAUFMAN, 82 Victoria Street, Westminster, S.W.1, upon deposit of Five Guineas (cheques made payable to the Dorking and Horley Rural District Council), which will be refunded upon receipt of a bona-fide Tender, not subsequently withdrawn.

Drawings may be inspected at the offices of the Consulting Engineers or at the office of MR. P. CALDWELL, Surveyor to the Council, Council Offices, Massetts Road, Horley, any day during ordinary office hours.

Tenders, endorsed "Tender, Sewage Disposal Works Extension—Contract No. 4," in plain sealed envelopes, not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 9th day of March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

MAURICE RIDGERS,  
Clerk of the Council.

Council Offices,  
Bromeshead,  
Dorking,  
Surrey,  
3rd February, 1960.

## CONTRACTS

COUNTY BOROUGH OF DEWSBURY.  
WATER DEPARTMENT.

TENDERS are invited by the above Corporation for the SUPPLY of the FOLLOWING:—  
Cast-iron Pipes and Specials.  
Valves and Hydrants.  
Asbestos-Cement Pipes.  
Water Meters.  
Surface Boxes (Cast Iron, etc.).  
Cast-iron Leadless Collars.

In such quantities as may be required during the year ending 31st March, 1961.  
Form of Tender, Schedule and General Conditions and any further information required can be obtained from the Water Engineer, 10 Church Street, Dewsbury.  
Tenders, enclosed in a plain sealed envelope, endorsed "Tender for Water Meters," or any of the other specified materials, must be sent to me by Noon, THURSDAY, the 3rd March, 1960.

A. NORMAN JAMES, Town Clerk.

Town Hall,  
Dewsbury,  
28th January, 1960.

## WOLVERHAMPTON COUNTY BOROUGH.

WOLVERHAMPTON CORPORATION  
WATER UNDERTAKING.

## HILTON WATERWORKS.

## COMPLETION OF BUILDINGS.

Contractors desirous of TENDERING for the CONSTRUCTION of ADDITIONAL BUILDINGS, together with the Decorative Finish to an Existing Pump-house for the Wolverhampton Corporation, are invited to send to the WATER ENGINEER AND MANAGER, 37 Meridale Road, Wolverhampton, a deposit of Three Pounds for the Contract documents, not later than 15th FEBRUARY, 1960, which deposit will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of the documents.

## CITY OF CAMBRIDGE.

CROMWELL ROAD  
SURFACE WATER RELIEF SEWER.

TENDERS are invited for the CONSTRUCTION of approx. 500 lin. yd. of 15in. to 27in. internal dia. SPUN CONCRETE TUBED SURFACE WATER SEWER, with Manholes, Connection to Existing Drainage, and the Cleaning and Regrading of approx. 620 lin. yd. of Ditch, together with all appurtenant Works.  
Tenders, enclosed in the official envelope supplied, must be received by 3 p.m. on THURSDAY, 10th March, 1960.

Tender documents may be obtained from the City Engineer, Guildhall, Cambridge, on payment of a deposit of £2 2s. (cheques to be payable to Cambridge Corporation), returnable only on the receipt of a bona-fide Tender and the return of all Drawings supplied to tenders.

The Council do not bind themselves to accept the lowest or any Tender.

ALAN H. I. SWIFT, Town Clerk.

Guildhall,  
Cambridge,  
January, 1960.

## CITY OF BRADFORD.

## ASPHALT SURFACING.

TENDERS are invited for the SUPPLY, DELIVERY and LAYING by MECHANICAL MEANS of approx. 37,000 super. yd. of ROLLED ASPHALT (Hot Process) on Various Roads in the City of Bradford.

Form of Tender, Conditions, Specification and Bills of Materials may be obtained from the City Engineer and Surveyor, Town Hall, Bradford, 1, on payment of a deposit of £2 2s. (cheques to be payable to Bradford Corporation), returnable only on the receipt of a bona-fide Tender and the return of all documents.

Tenders in plain sealed envelopes endorsed "Asphalt Surfacing" but bearing no mark indicating the sender, should reach me not later than First Post on TUESDAY, 23rd February, 1960.

HENRY PATTEN, Town Clerk.

Town Hall,  
Bradford, 1.

## HOLYWELL URBAN DISTRICT COUNCIL.

## WATER SUPPLY.

TENDERS are invited, on a FIXED-PRICE BASIS, from public works contractors, for PROVIDING and LAYING about 1,300 yd. of 6in. dia. ASBESTOS-CEMENT PIPES and for Fixing Valves and Fittings, etc., at HOLYWELL.

The Bills of Quantities, Specification and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WILLIAMS AND CLARKE, 6 Godstall Chambers, Chester, on payment of Two Guineas by cheque made payable to the Holywell Urban District Council, which sum will be refunded on receipt of a bona-fide Tender not subsequently withdrawn, accompanied by a fully priced Bill of Quantities. Plans may be inspected at the Engineers Office.

Tenders should be delivered to the undersigned not later than 5 p.m. on MONDAY, the 29th February, 1960, and the Council do not bind themselves to accept the lowest or any Tender.

Dated this 26th day of January, 1960.

J. KERFOOT ROBERTS, Clerk of the Council.

Town Hall,  
Holywell, Flintshire.

## BOWLAND RURAL DISTRICT COUNCIL.

## DELEGATED COUNTY ROADS.

The District Council, acting as Agents for the West Riding County Council, invite TENDERS for the UNDERMENTIONED PLANT and MATERIALS for the 12 months commencing 1st April, 1960:

- (1) Surface Dressing by Pressure Tanker.
- (2) Hired Mechanical Haulage.
- (3) Petrol and Diesel Rollers.
- (4) Tarred and Bituminised Macadam.
- (5) Dry Broken Stone.
- (6) Tar for Surface Dressing.
- (7) Bitumen for Surface Dressing.
- (8) Salt Glazed Earthenware Pipes and Street Gullies.
- (9) Concrete Pipes.
- (10) Concrete Kerbs.

Forms of Tender and full particulars may be obtained from MR. E. BERRY, Surveyor to the Council. Tenders, in plain sealed envelopes endorsed "Tenders for ——" and bearing no other mark of identification, must reach the undersigned not later than 12 Noon on SATURDAY, the 27th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. D. TELFORD, Clerk to the Council.

32 Pimlico Road,  
Clitheroe, Lancs.

## CONTRACTS

## BEDFORDSHIRE COUNTY COUNCIL.

## HIGHWAYS DEPARTMENT.

## ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the FOLLOWING:—

- Supply and Lay Single Course and Two-coat Tarmacadam, Open and Close Texture Bitumen and Tar Carpets, Gravel Asphalt Base Course and Wearing Course, Hot Sand Asphalt Carpet, and Fine Cold Asphalt by Barber-Greene machine.
- Supply of Bitumen Slag and Granite, Tarred Slag and Granite, Gravel Asphalt, Fine Cold Asphalt, Concrete Kerbs, Concrete Pipes and Tubes, Granite (including precast chippings), Gravel, etc., Portland Cement, Slag (including precast chippings), Stone-ware Pipes (seconds), Tar (including mechanical spraying), Cold Bitumen Emulsion.
- Hire of Lorries, Road Rollers and Verge Cutting Equipment.
- Schedule Contract for Kerbing, Haunching, Drainage, Footpaths and Culverts.

Forms of Tender from the County Surveyor, Dents Road, Bedford.  
Completed Tenders must be submitted in endorsed envelopes to the Clerk of the County Council, Shire Hall, Bedford, on or before TUESDAY, 1st March, 1960.

GEORGE BREWIS, Clerk of the County Council.

Shire Hall,  
Bedford,  
28th January, 1960.

## BOROUGH OF EALING.

CONSTRUCTION OF BOUNDARY WALLS—  
NORTHOLT PARK ESTATE.

Forms of TENDER and Specification, etc., can be obtained from the Borough Surveyor on payment of £2.

Tenders to be delivered to the TOWN CLERK, Town Hall, Ealing, W.5, not later than 12 Noon, 25th FEBRUARY, 1960.

## CITY OF WINCHESTER.

The Corporation invite TENDERS for the FOLLOWING WORKS:—

- (1) Reconstruction and Resurfacing of Roads in the city.
- (2) Widening and Reconstruction of Kilham Lane.
- (3) Construction of Two Garage Slabs and Approach Roads at Trussell Crescent and Thurmond Crescent.

Documents for these Works may be obtained from the City Engineer, Guildhall, Winchester, on payment of a deposit of £2 2s. in respect of each Contract, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the prescribed envelopes, must be delivered to the undersigned not later than First Post on FRIDAY, 4th March, 1960.

R. H. McCALL, Town Clerk.

Guildhall,  
Winchester,  
25th January, 1960.

## HEBDEN ROYD URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of a THREE-SECTION TOWER LADDER with platform height when extended of 24ft., mounted on suitable 30cwt. to 3-ton Motorised Chassis, complete with Cab and Cabin Workings.

Specification may be obtained upon application to MR. J. F. MOYSE, Engineer and Surveyor, Council Offices, Hebdon Bridge.

Sealed Tenders, endorsed "Tender for Tower Wagon," to be delivered to the undersigned not later than 5 o'clock p.m. on TUESDAY, 16th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

KENNETH KABERRY, Clerk of the Council.

Council Offices,  
Hebdon Bridge,  
February, 1960.

## LEEDS REGIONAL HOSPITAL BOARD.

## TO ENGINEERING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the INSTALLATION ONLY of ONE NEW CORNISH BOILER and EQUIPMENT at MARYGATES HOSPITAL, Wakefield.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on Wednesday, 17th February, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of MESSRS. PASHLER AND PARTNERS, Consultant Engineers, City Chambers, Infirmary Street, Leeds, 1.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 16th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE, Secretary to the Board.

Park Parade,  
Harrogate,  
Yorks.

## LEEDS REGIONAL HOSPITAL BOARD.

## TO HEATING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the COMPLETION of STEAM RING MAIN and HEATING to OLD WING at CLAYTON HOSPITAL, Wakefield.

Applications for Form of Tender and Specification and Drawings, accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board at the undermentioned address not later than 12 Noon on Wednesday, 17th February, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the Drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of MESSRS. PASHLER AND PARTNERS, Consultant Engineers, City Chambers, Infirmary Street, Leeds, 1.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 16th March, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE, Secretary to the Board.

Park Parade,  
Harrogate,  
Yorks.

## CONTRACTS

## COUNTY BOROUGH OF BIRKENHEAD.

PENSBY ROAD IMPROVEMENT.  
(SPARKS LANE TO BOROUGH BOUNDARY).

TENDERS are invited for the ABOVE WORK, which includes:—

- (a) 470 lin. yd. approx. nominally 30ft. wide 8in. thick Doubly Reinforced Concrete Carriageway.
- (b) 150 lin. yd. approx. nominally 30ft. wide Hot Rolled Asphalt Carriageway on Dry Bound Macadam Base.
- (c) 1,170 lin. yd. approx. 12in. x 6in. Kerbs, 2,300 sq. yd. approx. Flagged Footways and Grass Verges.
- (d) 540 lin. yd. approx. of 15in./9in. dia. Surface Water Sewer, including Manholes and Gullies.

Contract documents and Drawings may be inspected at the BOROUGH ENGINEER AND SURVEYOR'S OFFICE, Municipal Buildings, 3 Conway Street, Birkenhead. Tender documents supplied on deposit of £5, returnable on receipt of a bona-fide Tender. Closing date for Tenders, 22nd FEBRUARY, 1960.

## BOROUGH OF BILSTON.

## LOWERING OF COSELEY ROAD (A.463), BENEATH BILSTON STATION RAILWAY BRIDGE AND UNDERPINNING OF BRIDGE FOUNDATIONS.

TENDERS are invited for the LOWERING OF COSELEY ROAD (A.463), beneath Bilston Station Railway Bridge, and Underpinning of Bridge Foundations. Only Tenders from contractors experienced in this type of work will be considered.

Aspirants for copies of Form of Tender, Conditions of Contract, Specification and Bills of Materials should be made to the Borough Engineer, Municipal Buildings, Hall Street, Bilston, Staffs., not later than 15th FEBRUARY, 1960, enclosing a cheque for a deposit of Five Guineas, made payable to Bilston Corporation, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected by appointment at the offices of the Borough Engineer.

A closing date for the submission of Tenders will be given when the documents are supplied by the Borough Engineer.

The Council does not bind itself to accept the lowest or any Tender.

A. M. WILLIAMS, Town Clerk.

Town Hall,  
Bilston, Staffs.,  
January, 1960.

## CITY OF MANCHESTER.

TENDERS invited for the ERECTION OF FIVE SHOPS and FIVE MAISONNETTES at PEEL HALL NEIGHBOURHOOD, Wythenshawe.

Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 26th FEBRUARY.

## CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY and DELIVERY OF PEDESTRIAN GUARD RAILS for PICCADILLY, comprising approx. 625 lin. yd. of straight and curved lengths.

Tender Forms, returnable by 10 a.m. on 29th FEBRUARY, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY, DELIVERY and LAYING of the FOLLOWING:—

- (1) Rolled Asphalt in Carriageways.
- (2) Rolled Asphalt in Footpaths.
- (3) Rolled Asphalt in Reinstatements to Carriageways.
- (4) Rolled Asphalt in Reinstatements to Footpaths.
- (5) Mastic Asphalt in Footpaths.
- (6) Mastic Asphalt in Reinstatements.
- (7) Bitumen Macadam in Carriageways.

Tender Forms, returnable by 2nd MARCH, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

TENDERS are invited for the ERECTION of approx. 93 25ft. CONCRETE COLUMNS in PARKS WOOD ROAD (North and South), and 60 20ft. CONCRETE COLUMNS in YEW TREE ROAD.

Tender documents, returnable by 1st MARCH, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

TENDERS invited for ERECTION of a PUBLIC CONVENIENCE at HUNTERS LANE, GORTON.

Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by MARCH 2nd.

## CITY OF MANCHESTER.

TENDERS invited for new TARMAC PLAYGROUND required at ST. PHILIPS C. of E. SCHOOL, HULME.

Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall.

Tenders returnable by FEBRUARY 24th.

## CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY of approx. 300,000 gallons of TAR for TARSPraying during the period 1st April to 31st October, 1960.

Tender Forms, returnable by 10 a.m. on 24th FEBRUARY, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS during the 12 months commencing 1st April, 1960:—

- (a) Granite, Basalt and White Limestone Chippings for Tarspraying.
- (b) Rolled Asphalt (Hot Process), Cold Bituminous Macadam, Hot Bituminous Macadam, Low Penetration Hot Bituminous Macadam, Hot Asphalt, Sand Carpet and Sealing Grit.

Tender Forms, returnable by 10 a.m. on 24th FEBRUARY, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

CHEADLE AND GATLEY OVERSPILL AREA—  
COUNCILLOR LANE.

## ROAD AND SEWER CONTRACT

TENDERS are invited for CONSTRUCTING 13,650 sq. yd. BITUMEN MACADAM CARRIAGEWAY, 3,290 lin. yd. of 6in. to 18in. dia. SEWER, and all ancillary work.

Tender documents (returnable by 7th MARCH, 1960) obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester, 2.



## CONTRACTS

## BOROUGH OF EVESHAM.

## ADVANCE PREPARATION OF HOUSING ESTATE.

## BEWDLEY LANE HOUSING SITE.

TENDERS are invited for the CONSTRUCTION of approx. 1,900 sq. yd. of PITCHED CARRIAGEWAY, 325 lin. yd. of SURFACE WATER SEWER, and incidental Works.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Borough Surveyor, 1 Leicester Gables, High Street, Evesham, on payment of a deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Drawings and General Conditions of Contract may be inspected at the above office during normal working hours.

Tenders, in plain sealed envelopes endorsed "Bewdley Lane Site," should be delivered to the undersigned not later than Noon on MONDAY, 29th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

N. F. DAVIES,

Town Clerk.

Town Clerk's Office,

Evesham,

February, 1960.

## BOROUGH OF NEWARK - ON - TRENT.

## ATTESTED CATTLE MARKET—EXTENSIONS.

## TENDERS invited for the FOLLOWING:—

- (1) Construction of 42 Store Cattle Pens with 6in. Concrete Floors (approx. 1,000yd. sup.), including Fixing of Penning, Rails and Gates.
- (2) Construction in 9in. Brickwork of a Calf Auction, with 6in. Concrete Floors (230yd. sup.) and Asbestos-Cement Roof Coverings, including Fixing of Penning, Rails and Gates.
- (3) Extension of existing Truck Wash in 8in. Concrete (178yd. sup. and Channelling, and ancillary Works to Existing Surface Water Drainage Systems).
- (4) Construction of 1,900yd. sup. of 6in. Concrete Roadways.
- (5) Drainage, Water Supply and Electrical Installations incidental to above works.

Tender documents may be obtained from, and Drawings inspected at, the Office of the Borough Surveyor, Municipal Buildings, Balderton Gate, Newark-on-Trent, on payment of £2 2s., returnable upon receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes, endorsed "Attested Extensions," must be delivered to the Borough Surveyor by the 4th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. H. M. GREAVES,

Town Clerk.

Municipal Buildings,

Balderton Gate,

Newark-on-Trent,

1st February, 1960.

## ORPINGTON URBAN DISTRICT COUNCIL.

## PRIVATE STREET WORKS.

## NORTH ACCOMMODATION ROAD (PART), OFF SPUR ROAD, ORPINGTON.

TENDERS are invited for the MAKING-UP of the ABOVE STREET, the length of which is 78 lin. yd. The Works consist of Providing and Laying Hardcore Foundations, Tar Grouted Gravel Surfacing, Slab Paved Footways and Channelling, and ancillary Works to Existing Surface Water Drainage Systems.

The Conditions of Contract and Drawings may be inspected at the offices of, and Bills of Quantities obtained on application to, the Engineer and Surveyor, Civic Offices, The Walnuts, High Street, Orpington, Kent, upon payment of £2 deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "North Accommodation Road (Part), off Spur Road, Orpington," must be received by the undersigned not later than Noon on 26th FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

STEPHEN KING,

Clerk of the Council.

Council Offices,

Crofton Pound Hill,

Orpington, Kent,

11th February, 1960.

## THE URBAN DISTRICT COUNCIL OF ABERDARE.

## REPAIRS—FIREPLACES AND STACKS.

TENDERS are invited for REPLACING STEEL FLUES AND GRATES by BRICK FLUES and "EARTH TYPE GRATES in 96 B.I.S.F. HOUSES at PENYWAUN, Aberdare.

Tender documents may be obtained from the Engineer and Surveyor, Estuary Hall, Aberdare, on payment of a deposit of £1.

Tenders, in plain sealed envelopes bearing no mark or indication of the sender but endorsed "B.I.S.F. Houses," must reach me on or before 26th FEBRUARY, 1960.

D. G. JAMES,

Clerk of the Council.

Town Hall,

Aberdare,

1st February, 1960.

## WILLITON RURAL DISTRICT COUNCIL.

## STOGURSEY WATER SUPPLY.

## CASTLE STREET AND MONKTON FARM AREA MAIN REPLACEMENT.

TENDERS are invited for the FOLLOWING CONSTRUCTIONAL WORK:—

- (1) Supplying and Laying 1,000yd. of 3in. dia. Class "C" Asbestos-Cement Water Main.
- (2) Supplying and Fixing of Six 3in. dia. Sluice Valves.
- (3) Supplying and Fixing of One Air Valve.
- (4) Supplying and Fixing of One Fire Hydrant.

Drawings and Conditions of Contract will be available for inspection at the office of the Engineer, MR. S. E. BALCH, A.M.I.C.E., Council Offices, Fore Street, Williton, Taunton, Somerset, and the Form of Tender, Specification and Bill of Quantities can be obtained from the Engineer upon payment of a deposit of Two Guineas by cheque, which will be refunded upon the receipt of a bona-fide Tender and the return of all documents.

Tenders must be delivered to the undersigned not later than Noon on MONDAY, 29th February, 1960. The envelope shall bear no name or mark indicating the identity of the sender.

The Council does not bind itself to accept the lowest or any Tender.

F. P. RISDON,

Clerk to the Council.

Council Offices,

Williton,

Taunton,

1st February, 1960.

## CONTRACTS

## COUNTY BOROUGH OF BRIGHTON.

## WARREN ROAD-FALMER ROAD, WOODINGDEAN.

## ROAD WIDENING AND RECONSTRUCTION.

TENDERS are invited for the CARRYING OUT OF ROADWORKS at Woodingdean, Brighton.

The works consist of Kerbs, Flag and Coated Macadam Paving, Reconstruction of Existing Carriageway Foundation, and Widening to 30ft. in Warren Road and 24ft. in Falmer Road, Surface Drainage, and ancillary works. The total length of roads involved is approx. 1¼ miles.

The Drawings and General Conditions of Contract may be inspected at the Office of the Borough Surveyor, 26-30 King's Road, Brighton, from whom the Specification and Bills of Quantities may be obtained.

Tenders, with priced Bills of Quantities and other documents, must be returned to the undersigned, in the plain sealed envelope provided, not bearing any name or mark indicating the sender, endorsed "Warren Road-Falmer Road Widening," not later than Noon on SATURDAY, 27th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. O. DODD,

Town Clerk.

Town Hall,

Brighton, 1,

January, 1960.

## CITY OF BIRMINGHAM.

## TO PUBLIC WORKS CONTRACTORS.

The Public Works Committee invite TENDERS on a FIXED-PRICE BASIS for a MEASURE AND VALUE CONTRACT for the WIDENING of CARRIAGEWAY in COVENTRY ROAD (Part), between GEORGE ROAD and FRANCIS ROAD.

Copies of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of £2 2s. at the office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Plans for the Roadworks can be seen at Room 339, Third Floor, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered at the Town Clerk's Office (Room B.21), Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 24th February, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,

Acting Town Clerk.

Council House,

Birmingham, 1.

## CROMPTON URBAN DISTRICT COUNCIL.

## ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year ending the 31st March, 1961:—

- (1) Salt.
- (2) Broken Stone.
- (3) Concrete Flags, Kerb and Edging.
- (4) Sand.
- (5) Stoneware Pipes.
- (6) Dustbins.
- (7) Tar and Bituminous Macadam.
- (8) Cold Emulsion.
- (9) Sweeper/Collector (Karrier) Brush Refills.
- (10) Cement.
- (11) Cold Asphalt.
- (12) Iron Castings.
- (13) Electric Lamps.
- (14) Ground Lime.
- (15) Coke.
- (16) Petrol.

Specifications and Forms of Tender may be obtained from the Engineer and Surveyor, Town Hall, Shaw, Settle, near Oldham.

Completed Tenders shall be returned to the undersigned not later than 26th FEBRUARY, 1960.

G. R. HINTON,

Clerk of the Council.

Town Hall,

Shaw,

Settle,

Near Oldham.

## SETTLE RURAL DISTRICT COUNCIL.

## DELEGATED ROADS.

TENDERS are invited for the SUPPLY of the FOLLOWING for the year ending 31st March, 1961:—

- (1) Refined Tar.
- (2) Tar Compounds.
- (3) Surface Dressing by Pressure Tanker.
- (4) Mechanical Haulage.
- (5) Tools (Various).
- (6) Stoneware Pipes.
- (7) Concrete Edging and Channel.

Forms of Tender and full particulars may be obtained from the undersigned on receipt of a stamped addressed envelope.

Tenders, sealed and endorsed "Tender for —," must be delivered to the undersigned not later than 12 Noon on SATURDAY, 27th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) S. C. DAVIDSON,

Surveyor to the Council.

Highways Department,

Town Hall,

Settle, Yorkshire,

2nd February, 1960.

## UCKFIELD RURAL DISTRICT COUNCIL.

## TENDERS—MARESFIELD VILLAGE SEWERAGE.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about 2,500yd. of 6in. STONEWARE SEWERS, CONCRETE MANHOLES, etc., and Remedial Work to the Existing Sewage Disposal Works.

The Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, 59 Tuford Street, Westminster, S.W.1, on payment of a deposit cheque of £3 3s., made payable to the Council, which will be returned on receipt of a bona-fide Tender and return of all documents loaned to the contractor. The Drawings may be inspected at the Engineers' Office or at the Council Offices.

The completed Form of Tender and Priced Bills of Quantities are to be delivered to the undersigned in a plain sealed envelope endorsed "Maresfield Village Sewerage," not later than Noon on MONDAY, 14th March, 1960.

The Council are not bound to accept the lowest or any Tender.

D. C. DURRANT,

Clerk of the Council.

Council Offices,

Beacon Road,

Crowborough,

Sussex.

## CONTRACTS

## STAFFORDSHIRE COUNTY COUNCIL.

## BIRMINGHAM-PRESTON MOTORWAY.

TENDERS will be invited by further advertisements to appear early in March, 1960, for the FOLLOWING CONTRACT:—

Contract Section "A" Dunston to Whitgreave. The Construction of 7 miles of new Motorway and 0.7 miles of Link Road, forming a By-pass of Stafford, comprising Earthworks, Drainage, Carriageway Foundations and Surfacing, etc., and including 25 Bridges.

The purpose of this advertisement is to enable civil engineering contractors to secure advance information of the location, nature and extent of the works of the scheme, which is the first section of 26 miles of motorway from Dunston to the Cheshire Boundary near Barthomley, so that they may consider whether or not they desire to submit Tenders, and for their guidance, general Drawings, not necessarily Contract Drawings, may be inspected at the Office of the County Surveyor, County Buildings, Stafford, by appointment at any time during customary office hours.

T. H. EVANS,

Clerk of the County Council.

County Buildings,

Stafford.

## LANCASHIRE COUNTY COUNCIL.

## BIRMINGHAM-PRESTON MOTORWAY.

TENDERS will be invited early in March, 1960, for the FOLLOWING CONTRACTS:—

Contract No. 2 (Lancashire Section).—Woolston to Winstanley Park.—The Construction of 11.30 miles of new Motorway, comprising Earthworks, Drainage, Carriageway Foundations and Surfacing, etc., and including 32 Bridges.

Contract No. 3 (Lancashire Section).—Winstanley Park to Preston By-pass.—The Construction of 14.81 miles of new Motorway, comprising Earthworks, Drainage, Carriageway Foundations and Surfacing, etc., and including 40 Bridges.

The purpose of this advertisement is to enable civil engineering contractors to secure advance information of the location, nature and extent of the works, so that they may consider whether they desire to submit Tenders, and for their guidance, general Drawings, not necessarily Contract Drawings, may be inspected at the Office of the County Surveyor and Bridgewaymaster at any time during customary office hours. Bridgeworks at the County Hall, Preston, and Roadworks at the Motorways Design Office, Lancashire County Council, Prospect Hill, School Lane, Bamber Bridge, near Preston.

CLERK OF THE COUNTY COUNCIL.

County Hall,

Preston.

## LANCASHIRE COUNTY COUNCIL.

TENDERS will be invited from selected firms for the DEVELOPMENT of PLAYING FIELDS and FENCING, etc., at the FOLLOWING:—

- Accrington College of Further Education.
- Kirkby St. Michaels R.C. Primary School.
- Litherland St. Wilfrids R.C. Secondary.
- Lancaster and Morecambe College of Further Education.
- Torrisholme County Primary School.
- Lancaster R.C. Secondary School.

Applications to tender must be received by the COUNTY ARCHITECT, P.O. Box 26, County Hall, Preston, not later than FRIDAY, 26th February, 1960, quoting Ref. A/G/CS.

## LANCASHIRE COUNTY COUNCIL.

## PLANT.

TENDERS are invited for PLANT, comprising:—

- GROUP "A":
- Two Blaw Knox PFSO Paver Finishers.
- One International Drott B&K Skid Shovel.
- One Heavy Diesel-engineered Roller.
- One 15cwt. Mobile Crane.
- Two Hiab Hydraulic Lorry Loaders (2-ton).

GROUP "B":

- Six Ferguson F335 Tractors and Trailers.
- Three Hyster Highway Mowers.
- Two David Brown Hurricane Verge Trimmers.
- Three Ferguson Dynabalance Mowers.
- One Lolode Trailer.
- Four Two Somerset Verge Trimmers.
- Eight Allen Rotary Sickles.

GROUP "C":

- One Vistaline White Line Machine.
- One Plastic Heater and Mixer.
- Four Atkinson Bulk Gritter Bodies.
- Six Tuke and Bell Gritting Attachments.
- Two 250-gallon Water Tank Trailers.

GROUP "D":

- Three Salt and Ash Loading Plants.

Tender documents obtainable from the COUNTY SURVEYOR, County Hall, Preston (P.O. Box 9), on payment of a deposit of £5 (returnable only to bona-fide tenderers). Cheques to be made payable to "Lancashire County Council."

Contractors must state group (or groups) for which they wish to submit Tenders, quoting Ref. 136/51. Tenders returnable by 10 a.m. on SATURDAY, 5th March, 1960.

## HITCHIN RURAL DISTRICT COUNCIL.

## PARISH OF ICKLEFORD.

## SEWERAGE CONTRACT NO. 8.

The Council invite TENDERS for the EXECUTION of SEWERAGE WORKS, comprising the Furnishing and Laying of about 4,400yd. of 9in. and 6in. Stone-ware and Spun-iron Pipe Sewers, Manholes, House Drains, Ventilators, and about 1,700yd. of 7in. Spun-iron Pumping Main, and the Construction of a Sewage Pumping Station, and other appurtenant works.

Contractors desirous of tendering are requested to send their names and addresses to D. BAFOUR AND SONS, M.M.I.C.E., 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of £10 made payable to the Hitchin Rural District Council, not later than MONDAY, 22nd February, 1960, after which full particulars will be forwarded. The deposit will be returned on receipt of a bona-fide Tender and the return of all printed documents after the Contract has been let.

It is essential that the contractor shall have had considerable experience in similar works and be prepared to furnish security with an approved society for the fulfilment of the Contract.

Tenders, in a plain sealed envelope endorsed "Tender for Sewerage," must be sent to the undersigned by a date to be given by the Engineers. The lowest, or any, Tender will not necessarily be accepted.

W. E. POTTER,

Clerk to the Council.

Council Offices,

21 Bancroft,

Hitchin, Herts.

2nd February, 1960.

## CONTRACTS

## COUNTY OF CORNWALL

Notice is hereby given of the intention to let separately the CONTRACT for STRUCTURAL STEELWORK in connection with the proposed erection of a new Fire Station at CAMBORNE.

Applications are invited for permission to submit a FIXED-PRICE TENDER for THIS SUB-CONTRACT and should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 20th February, 1960, from which a selected number of firms will be invited to tender. The closing date for receipt of Tenders will be notified when the documents are dispatched.

The lowest or any Tender will not necessarily be accepted, nor will the County Council pay to contractors any fees or expenses incurred in the preparation of a Tender.

E. T. VERGER,  
Clerk of the County Council.

County Hall,  
Truro,  
4th February, 1960.

## COUNTY COUNCIL OF MIDDLESEX

## BRIDGE OVER RIVER FRAYS, IVER LANE, UXBRIDGE.

TENDERS are invited for the DEMOLITION, RECONSTRUCTION and WIDENING of the BRIDGE OVER the RIVER FRAYS, in IVER LANE, Uxbridge, including Approaches, to a total length of 80yd.

Plans may be inspected at the offices of the County Engineer, Middlesex House, 20 Vauxhall Bridge Road, S.W.1, and Contract documents obtained on payment of a deposit of £10, returnable on receipt of a bona-fide Tender.

Tenders are to be delivered in the envelope supplied in order to reach the undersigned by Noon on WEDNESDAY, 16th March, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

KENNETH GOODACRE,  
Clerk of the County Council.

Guildhall,  
Westminster,  
S.W.1.

## COUNTY BOROUGH OF SOUTHAMPTON

TENDERS are invited for ERECTION of THREE-CLASSROOM ANNEXE at WESTON PARK INFANTS' SCHOOL. Forms and particulars (including Bill of Quantities) from Borough Architect on written application by 20th FEBRUARY, 1960. R.I.B.A. Contract, plus Supplementary Conditions, available for inspection.

Tender to TOWN CLERK, Civic Centre, Southampton, by 10 a.m., 21st MARCH, 1960.

## BOROUGH OF HARTLEPOOL

## ERECTION OF 36 HOUSES, FOUR MAISONNETTES AND EIGHT GARAGES.

TENDERS are invited for the ERECTION of BRICK-BUILT HOUSES and MAISONNETTES in the THROSTON REDEVELOPMENT AREA, Hartlepool.

Plans may be inspected at, and Bills of Quantities and Form of Tender may be obtained from, the office of the Borough Engineer, Borough Buildings, Hartlepool, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for 36 Houses, Four Maisonnettes and Eight Garages," must be delivered to the undersigned not later than 12 Noon, MONDAY, 7th March, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

L. O. WILLIAMS,  
Town Clerk.

Borough Buildings,  
Hartlepool.

## CITY OF SALFORD

## PROPOSED 28 (FOUR-STOREY) MAISONNETTES—OAKLANDS ROAD, SALFORD, 7.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION of 28 MAISONNETTES in Three Four-storey Blocks, at OAKLANDS ROAD, Salford, 7. Conditions of Contract and Drawings may be inspected at, and Bills of Quantities and Form of Firm-price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s., which will be returned on submission of a bona-fide Firm-price Tender, not subsequently withdrawn.

Firm-price Tenders, on the prescribed form, sealed in the envelope provided, and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on WEDNESDAY, 2nd March, 1960.

The Council does not bind itself to accept the lowest or any Firm-price Tender.

R. RIBBESDALE THORNTON,  
Town Clerk.

## WORTLEY RURAL DISTRICT COUNCIL

## ANNUAL SUPPLIES.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and LABOUR for the 12 months commencing 1st April, 1960:—

- (1) Cement.
- (2) Tar and Bitumen for Surface Dressing, in Bulk, in Barrels, and for Supply and Apply.
- (3) Bituminous Cold Emulsion, in Bulk, in Barrels and for Supply and Apply.
- (4) Tarred Macadam and Bituminous Macadam (Granite, Limestone and Slag).
- (5) Cold Asphalt and Sealing Grit.
- (6) Clean Chippings and Dust (Granite, Limestone and Slag).
- (7) Walling Stone, Broken Stone and Pitching.
- (8) Sand and Gravel.
- (9) Concrete Flags, Kerbs, Edging and Channel Blocks.
- (10) Stoneware Pipes, Bends, Junctions and Specials.
- (11) Bricks.
- (12) C.I. Gully Grates and Frames and Manhole Covers and Frames.
- (13) Tools and Implements.
- (14) Lubricating Oils and Paraffin.
- (15) Coal.
- (16) Hire of Plant and Transport.

Specifications of materials required (where appropriate) can be inspected at the Office of the Council's Engineer and Surveyor, Council Offices, Grenoside, Sheffield, from whom Forms of Tender may be obtained.

Tenders must reach the undersigned not later than Noon on the 29th FEBRUARY, 1960, and must be delivered in the envelope provided, which shall not bear any name or mark indicating the sender.

The Council reserves the right to divide contracts between two or more contractors, and does not bind itself to accept the lowest or any Tender.

ADRIAN M. KELLY,  
Clerk of the Council.

Council Offices,  
Grenoside,  
Sheffield.

## CONTRACTS

## THE HASTINGS CORPORATION.

TENDERS are invited for the SUPPLY of the FOLLOWING ITEMS to certain establishments for a period of 12 months from 1st April, 1960:—

Bread, Cakes, Groceries and Provisions, Fish, Meat, Vegetables and Fruit (with the exception of Potatoes), Milk, Papers and Periodicals; also for Chimney Sweeping, Window Cleaning, Hairdressing and Shaving, Laundry and Dry Cleaning.

Tender Forms may be obtained on application to the TOWN CLERK, Town Hall, Hastings.

## CITY OF LIVERPOOL

## WATER DEPARTMENT.

## RIVER DEE SUPPLY.

TENDERS invited for LAYING 60in. dia. STEEL MAIN and ancillary works, as follows:—

(a) Contract No. 8.—Huntington to Barrow Section, 7 miles of Main.

(b) Contract No. 9.—Barrow to Frodsham Section, 6 miles of Main.

(c) Contract No. 10.—Frodsham to Norton Section, 2½ miles of Main with major river and canal crossing.

Documents from Water Engineer, 55 Dale Street, Liverpool, 2 (deposit £5 each contract, payable City Treasurer).

Tenders returnable by APRIL 4th, 1960.

(J.6034.) THOMAS ALKER,  
Town Clerk.

## LEES URBAN DISTRICT COUNCIL

## ANNUAL TENDERS.

TENDERS are invited for the SUPPLY and DELIVERY as and when required of the FOLLOWING MATERIALS for the year ending 31st March, 1961:—

(1) Precast Concrete Flags and Kerbs.

(2) Bituminous Macadam.

(3) Cold Asphalt.

(4) Granite Chippings.

(5) Sand.

(6) Salt.

(7) Dustbins.

(8) Scavenger Brooms.

Forms of Tender may be obtained from the Surveyor, Council Offices, Lees, near Oldham, Lancashire, on receipt of a stamped addressed envelope.

Tenders, in a plain sealed envelope, clearly endorsed "Tender for Materials," must be delivered to the Office of the Surveyor not later than the First Post on SATURDAY, 27th February, 1960.

The Council does not bind itself to accept the lowest or any Tender, and any contract will be subject to the Standing Orders of the Council.

F. ALLAN CROPPER,  
Clerk of the Council.

Council Offices,  
Cross Street,  
Lees, nr. Oldham.

## GOLBORNE URBAN DISTRICT COUNCIL

## TENDERS FOR MATERIALS, 1960-61.

The above Council invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS, etc.:—

Coated Limestone Macadam, Coated Slag Macadam, Cold Asphalt, Concrete Flags and Kerbs, Drain Pipes and Surface Dressing of Roads.

Further particulars and Forms of Tender may be obtained from MR. J. B. HOYLE, A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Council Offices, Lowton, near Warrington.

Tenders, in plain sealed envelopes endorsed "Tender for ———," bearing no names or mark indicating the sender, must be received by the undersigned on or before MONDAY, 29th February, 1960.

F. MARTLAND,  
Clerk of the Council.

Council Offices,  
Cross Street,  
Lees, nr. Oldham.

## THE NORTHWICH RURAL DISTRICT COUNCIL

## TENDERS are invited for the SUPPLY and ERECTION of 48 PRECAST CONCRETE BUS SHELTERS of the Enclosed and Cantilever type, in various Parishes.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from the Offices of the Engineer and Surveyor, Whitehall, Hartford, Northwich, Cheshire, where the Drawings may be inspected upon payment of Two Guineas, which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

Tenders must be returned in the envelope enclosed with the Tender documents, bearing no name or mark indicating the sender, and must be delivered not later than 10 a.m. on THURSDAY, the 3rd March, 1960, to the CLERK of the COUNCIL, Whitehall, Hartford, Northwich, Cheshire.

## RURAL DISTRICT COUNCIL OF DURSLEY.

## COMPREHENSIVE SCHEME OF WATER SUPPLY—CONTRACT 4 WITHIN THE PARISHES OF NCAM AND COALEY.

The Council invite TENDERS on a fixed-price basis from experienced civil engineering contractors for the FOLLOWING WORKS of WATER SUPPLY:—

(1) Construction of a 40,000-gallon Concrete Reservoir.

(2) Construction of a 5,000-gallon Concrete Break Pressure Tank.

(3) The Provision and Laying of Spun-Iron Water Mains, of 24 in. dia., 6 in. dia.

(4) The Provision and Laying of Asbestos-Cement Pressure Mains:—

(a) 2,340 lin. yd. 6 in. dia.

(b) 3,780 lin. yd. 12 in. dia.

(c) 3,300 lin. yd. 3 in. dia.

(5) The Provision and Laying of Galvanised Steel Mains of 2 in. and 1½ in. dia., 850 lin. yd.

(6) The Provision and Laying of new Service Connections, together with Disconnection of existing Service Connections from existing Mains and Reconnection to new Mains, together with ancillary works.

Contractors desirous of tendering are requested to advise the Council's Consulting Engineers, Messrs. T. WARD WHITEFIELD AND SON, 54 Stalard Street, Trowbridge, Wilts., not later than WEDNESDAY, the 17th February, 1960, after which they will receive full particulars. The applications must be accompanied by a deposit of Five Guineas, which will be returned after receipt of bona-fide Tender.

Tenders, in plain sealed envelopes, endorsed "Tender for Water Works," must reach the undersigned by a date to be given by the Engineers.

The Council does not bind themselves to accept the lowest or any Tender.

H. A. PATE,  
Clerk of the Council.

Council Offices,  
Kingshill,  
Dursley, Glos.

2nd February, 1960.

## CONTRACTS

## BRECONSHIRE COUNTY COUNCIL

## SURFACE DRESSING, 1960.

TENDERS are invited for SURFACE DRESSING of ROADS (450,000 sq. yd.). Particulars from the County Surveyor, Watton Offices, Brecon. Tenders to be returned to the undersigned by 7th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. M. S. WELLS,  
Clerk of the County Council.

County Hall,  
Brecon.

## BOROUGH OF CAMBERWELL

## WIDENING OF A.205, LORDSHIP LANE (PART).

TENDERS invited for works connected with WIDENING PART of LORDSHIP LANE (between Dulwich Common and Wood Vale), involving Site Clearance, Excavation, Surface Water Drainage, Kerbing, Paving and Asphalt Surfacing and Miscellaneous Works.

Facilities for inspection of the BOROUGH ENGINEER on receipt of a deposit of £3 3s. (returnable on receipt of a bona-fide Tender not subsequently withdrawn). Tenders to be submitted by Noon, TUESDAY, 8th March, 1960, in official envelope provided.

Town Hall,  
Camberwell, S.E.5.

## BOROUGH OF CHELMSFORD

## CONSTRUCTION OF RUNNING TRACK AND FACILITIES FOR FIELD EVENTS.

TENDERS are invited from contractors with experience of works of similar nature for the CONSTRUCTION of a CINDER RUNNING TRACK and FACILITIES FOR FIELD EVENTS, for which the whole of the Works must conform to the standards of the Amateur Athletics Association.

The Contract will be on a fixed price basis, i.e., No Variation of Price (Labour and Materials Clause).

Documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices, Coval Lane, Chelmsford, upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of all Tender documents.

Tenders must be received by the undersigned not later than 12 Noon on the 29th FEBRUARY, 1960.

B. A. FRANCIS,  
Town Clerk.

Municipal Offices,  
Coval Lane,  
Chelmsford.

## SUTTON-IN-ASHFIELD URBAN DISTRICT COUNCIL

## TENDERS FOR ROAD MATERIALS.

The above Council invite TENDERS for the UNDERMENTIONED MATERIALS for the year ending 31st March, 1961:

Tarred Macadam.

Bituminous Macadam.

Bituminous Macadam Laid by Barber-Greene Spreaders.

Tar and Bituminous Compounds.

Cement.

Concrete Flags and Kerbs.

Stoneware Pipes.

Street Gullies.

Gully Grids and Frames.

Gravel and Ballast.

Sand.

Fine Cold Asphalt.

Dry Limestone or Slag Chippings.

Ready Mixed Concrete.

Forms of Tender and Specification may be obtained from the Office of the Engineer and Surveyor to the Council, MR. IAN L. MCCALLUM, M.Inst.Mun.E., Council Offices, Forest Lodge, Station Road, Sutton-in-Ashfield.

Sealed Tenders, endorsed "Tender for Materials," must be received by the undersigned not later than 12 Noon on WEDNESDAY, the 2nd March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

WALTER LAUGHTON,  
Clerk of the Council.

Barclays Bank Chambers,  
Low Street,  
Sutton-in-Ashfield.

4th February, 1960.

## BENFLEET URBAN DISTRICT COUNCIL

## PRIVATE STREET WORKS.

TENDERS will shortly be required for the MAKING-UP of SIDWELL AVENUE, SIDWELL CHASE, SIDWELL LANE, CUMBERLAND AVENUE (Part), KIMBERLEY ROAD (Part), and KENTS HILL ROAD, South Benfleet.

The Works comprise approx. 20,450 super. yd. of Reinforced Concrete Carriageways, 3,450 lin. yd. of Sewer, 10,500 super. yd. Concrete Footways and 6,050 lin. yd. of Concrete Kerbs. Contractors who desire to receive a Specification, Forms of Tender and Bills of Quantities, should make application to the Engineer and Surveyor to the Council by not later than 12 Noon on MONDAY, 22nd February, 1960.

Application should be accompanied by a deposit of £2, which will be refunded on receipt of a bona-fide Tender.

D. GRUDGINGS,  
Clerk of the Council.

Council Offices,  
Thundersley,  
Essex.

## AMERSHAM RURAL DISTRICT COUNCIL

## ENGINEER AND SURVEYOR'S DEPARTMENT.

## COUNCIL HOUSES—EXTERNAL REDECORATIONS, 1960.

The Council have under consideration a programme of EXTERNAL REDECORATIONS by Contracts for HOUSES on Sites varying from Eight to 54 Houses in various parts of their area. It is proposed to let Contracts according to the separate Estates involved.

The Council set a high standard for this work, and as a guide to contractors, a priced schedule has been prepared for each site. The work will be closely supervised to ensure that the specifications are adhered to. Selected contractors will be required to submit tenders based on the priced schedule.

Contractors wishing to be considered for the work should apply (before 29th FEBRUARY, 1960) to J. GODBEHERE, Esq., Engineer and Surveyor of the Council, enclosing particulars of similar work recently carried out by them.

The Council will select from the applicants those contractors they consider have the necessary experience and ability to comply with their requirements.

H. E. BUXTON,  
Clerk to the Council.

Elmodesham House,  
42 High Street,  
Amersham, Bucks.



## CONTRACTS

BUCKS. COUNTY COUNCIL.  
HIGHWAYS AND BRIDGES COMMITTEE.

APPLICATIONS are invited from persons or firms able to undertake FENCING WORKS, for inclusion on the approved lists of selected contractors from whom Tenders may subsequently be invited for the Execution, under Contract, of such Works in lieu of their being invited by public advertisements. Applications, containing particulars of the types of Fencing Contracts undertaken within the past three years, must be delivered to the undersigned not later than SATURDAY, 20th February, 1960, in envelope endorsed "Fencing, H.16."

R. E. MILLARD,  
Clerk of the County Council.

County Hall,  
Aylesbury.

COUNTY BOROUGH OF READING.  
WHITLEY WOOD ROAD FOUL SEWER.

TENDERS are invited for CONSTRUCTION of 190 in. vd. (approx.) Foul Sewer and other appurtenant works in private property in Whitley Wood Road. General Conditions and Drawings may be inspected, and Bill of Quantities, etc., obtained, for fee of Two Guineas (cheques payable to Reading Corporation) at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Fee refunded for bona-fide Tender. Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on 1st MARCH, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Whitley Wood Road Foul Sewer," but bearing no indication of sender. The Corporation do not bind themselves to accept any Tender.

COUNTY BOROUGH OF READING.  
DEMOLITION OF NO. 6 LONDON STREET AND THE ISLAND BAKERY, READING.

TENDERS are invited for the DEMOLITION of the ABOVE PROPERTY. Plans, Specifications, Forms of Tender, etc., may be obtained at Borough Surveyor's Office (P.O. Box 17), Town Hall, Reading. Tenders to be delivered to TOWN CLERK, Town Hall, Reading, by 12 Noon on 29th FEBRUARY, 1960. No Tender considered unless enclosed in plain sealed envelope endorsed "Demolition of 6 London Street, etc.," but bearing no indication of sender. The Corporation do not bind themselves to accept any Tender.

BOROUGH OF RICHMOND (SURREY).  
UNIFORM AND PROTECTIVE CLOTHING.

The COUNCIL invite TENDERS for UNIFORM and PROTECTIVE CLOTHING. Form of Tender, etc., can be obtained from the Borough Engineer and Surveyor, Hotham House, Heron Court, Richmond, Surrey. Tenders, in plain sealed envelopes, endorsed "Tender for Clothing," to be delivered to the undersigned not later than 5th MARCH, 1960. The Council do not bind themselves to accept the lowest or any Tender.

CLIFFORD HEYWORTH,  
Town Clerk.

Town Hall,  
Richmond, Surrey.

BOROUGH OF BARNES.  
WESTFIELDS HOUSING SCHEME—PART II (114 FLATS).

BEVERLEY BROOK SITE—CROSS STREET, S.W.13.

FIXED-PRICE TENDERS are invited for the ERECTION of 114 FLATS in Five Blocks in Crosswall Construction—Four Blocks of Four Storeys with Pile Foundations and Ground Floor Beams by other contractor. One Three-storey Block, including Strip Foundations, and Outbuildings. Forms of Tender, Drawings, Specification and Bills of Quantities may be obtained from the Office of the undersigned, to whom Tenders, sealed in the envelope provided, must be returned not later than First Post on WEDNESDAY, 16th March, 1960. Fully priced Bills, under separate cover if preferred, should be forwarded to the Office on the same day. W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S., M.I.Mun.E., A.M.T.P.I., Borough Engineer and Surveyor.

Municipal Offices,  
Sheen Lane, S.W.14.

## BILLINGE-AND-WINSTANLEY URBAN DISTRICT COUNCIL.

## ANNUAL TENDERS FOR MATERIALS.

TENDERS are invited for the SUPPLY of MATERIAL for the year ending 31st March, 1961, including Tared Limestone, Broken Stone, Bituminous Road Stone, Tar, Granite Chippings, Concrete Flags, Kerbs and Edgings, Ashes, Dustbins, Hired Haulage and Road Rolling. Schedules and Specification of Materials for tendering can be obtained from the Surveyor, Council Offices, Billinge, near Wigan. Tenders must reach the undersigned not later than Noon on SATURDAY, 20th February, 1960, and must be delivered in a plain sealed envelope suitably endorsed. The Council do not bind itself to accept the lowest or any Tender.

JOHN C. TAYLOR,  
Clerk of the Council.

Council Offices,  
Billinge, nr. Wigan.

## BRIERLEY HILL URBAN DISTRICT COUNCIL.

## RESURFACING OF COUNTY ROADS.

TENDERS are invited for the LAYING of approx. 7,420 sq. yd. of HOT-ROLLED ASPHALT over various COUNTY ROADS, and 12,270 sq. yd. of Bituminous Macadam over various District Roads in the Brierley Hill Urban District. Contract documents and further particulars may be obtained at the office of the Council's Engineer and Surveyor, Civic Buildings, Brierley Hill, Staffs., on payment of a deposit of Two Guineas, which will be refunded on the submission of a bona-fide Tender not subsequently withdrawn, and the return of all documents with completed Bills of Quantities enclosed in plain sealed envelopes endorsed "Resurfacing of County Roads," to reach the undersigned not later than Noon on MONDAY, 29th February, 1960. The Council do not bind themselves to accept the lowest or any Tender and reserve the right to accept any Tender in whole or in part.

HERBERT HEX,  
Clerk of the Council.

Civic Buildings,  
Brierley Hill,  
Staffs.

## CONTRACTS

FLINTSHIRE COUNTY COUNCIL.  
PUBLIC STREET WORKS ACT, 1892.

TENDERS are invited for MAKING-UP MOEL VIEW ROAD, GRONANT (260 lin. yd. approx.). The Drawings may be inspected at the Office of the Coding Surveyor, E. W. W. RICHARDS, A.M.I.C.E., A.M.I.Struct.E., A.M.I.Mun.E., County Buildings, Mold, from whom Bills of Quantities, Specification, Form of Tender, etc., may be obtained upon payment of £2 2s. deposit, which will be returned upon receipt of a bona-fide Tender and documents supplied. Tenders, in a plain sealed envelope endorsed "Private Street Works," to be delivered in the Clerk of the County Council not later than 12 Noon on MONDAY, 22nd February, 1960.

W. HUGH JONES,  
Clerk of the County Council.

County Buildings,  
Mold.

METROPOLITAN BOROUGH OF WANDSWORTH.  
CONSTRUCTION OF MANHOLES.

TENDERS invited for CONSTRUCTION of 23 MANHOLES on existing SEWERS. Tender documents, obtainable from the Borough Engineer upon receipt of £2 2s. deposit (returnable on receipt of bona-fide Tender), must reach me by 10 a.m., 9th MARCH, 1960.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

METROPOLITAN BOROUGH OF WANDSWORTH.  
BUILDING AND MAINTENANCE WORKS.

Applications are invited from contractors who wish to be placed on the Council's approved list of contractors who may be invited from time to time to UNDERTAKE BUILDING or MAINTENANCE WORKS to MUNICIPAL PROPERTIES (other than small housing repairs and decorations) of an estimated value not exceeding £3,000. Applications to me, giving technical and financial references, by 29th FEBRUARY, 1960.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

METROPOLITAN BOROUGH OF WANDSWORTH.  
PRECAST CONCRETE BRIDGE BEAMS.

TENDERS are invited for the SUPPLY of PRECAST CONCRETE BEAMS for the RECONSTRUCTION of the DUNTHILL ROAD BRIDGE, which has a clear span of 40ft. (41ft. 6in. skew span). Tender documents, obtainable from the Borough Engineer, must reach me by 10 a.m., 9th MARCH, 1960.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

METROPOLITAN BOROUGH OF WANDSWORTH.  
ASPHALT AND BITUMEN MACADAM SURFACING.

TENDERS invited for PROVIDING and LAYING 4,600yd. ROUGHCOAT ASPHALT and 58,000yd. BITUMEN MACADAM, on UNDERLAY where necessary. Tender documents, obtainable from the Borough Engineer upon receipt of £2 2s. deposit (returnable on receipt of a bona-fide Tender, not subsequently withdrawn), must reach me by 10 a.m., 9th MARCH, 1960.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

METROPOLITAN BOROUGH OF WANDSWORTH.  
PUTNEY VALE CREMATORIUM AND CEMETERY.

Contractors wishing to TENDER for WORK of REBUILDING the CHURCH OF ENGLAND CHAPEL at PUTNEY VALE CEMETERY should submit names to me by WEDNESDAY, 9th March 1960, giving details of experience, plant and technical and supervisory staff available, together with names of two technical and two financial referees. Bills of Quantities will be issued to selected contractors in due course. Drawings may be examined at Office of Borough Engineer and Architect.

J. NOEL MARTIN,  
Town Clerk.

Municipal Buildings,  
Wandsworth, S.W.18.

## DAER WATER BOARD.

SECOND INSTALLMENTS OF PIPELINES—STAGE I.  
PIPELAYING CONTRACTS NOS. 4, 5 AND 6.

The Daer Water Board invite TENDERS for the LAYING of STEEL PIPELINES with VIKING-JOHNSON COUPLINGS, in the County of LANARKSHIRE. The approx. lengths and locations are as follows:—  
CONTRACT No. 4.—Daer Treatment Works to Elvanfoot, 5½ miles of 54in. dia. Pipeline.  
CONTRACT No. 5.—Elvanfoot to Abington, 5½ miles of 54in. dia. Pipeline.  
CONTRACT No. 6.—Douglas Moor Tank to Brocksbrae, 8 miles of 42in. dia. Pipeline.  
Tender documents for all or any of these contracts may be obtained on or after the 3rd February, 1960, at the Office of D. W. BUCHAN, Esq., County Water Engineer, 23 Beckford Street, Hamilton, or at the Office of Messrs. BINNIE, DEACON and GOURLEY, Artillery House, Artillery Row, London, S.W.1, on payment of a deposit of Five Pounds, which will be refunded on receipt of a bona-fide Tender. Each Tender, sealed in a separate plain envelope, and endorsed "Tender for Contract No. —," with the number 4, 5 or 6 inserted appropriately, should be delivered to my Office before Noon on 4th MARCH, 1960. A further advertisement for two other major pipe-laying contracts, Nos. 7 and 8, will follow in a few weeks. The Board do not undertake to accept the lowest or any Tender, nor will any expense in connection with tendering be defrayed, but tenderers must make themselves fully acquainted with the site and conditions of work.

IAN V. PATERSON,  
Clerk to Daer Water Board.

Laurenshire House,  
191 Ingram Street,  
Glasgow, C.1.

3rd February, 1960.

## CONTRACTS

GOVERNMENT OF CEYLON.  
AMENDED TENDER NOTICE.

The Chairman, Tender Board, Ministry of Works, Transworks House, Colombo, Ceylon, will receive TENDERS up to 9.30 a.m. on WEDNESDAY, 4th May, 1960, for the PURIFICATION PLANT for the University of Ceylon, Peradeniya Water Supply Scheme. Tenders will be opened at 2.30 p.m. on the same day and at the same place in the presence of the tenderer or his representative.

Tenders should be made in triplicate, in accordance with the Conditions of Tender, Specification, etc., which may be obtained at the Office of the Chief Engineer, Construction and Maintenance (Waterworks), P.W.D., Ratmalana, Ceylon, or the Crown Agents for Oversea Governments and Administrations up to Noon on SATURDAY, 27th February, 1960, on payment of a Tender deposit of Rs.500/- where the Tender is issued in Ceylon and on payment of a Tender deposit of £50 and a Tender fee of £5 where the Tender is issued abroad. Sealed Tenders may be sent either under registered cover, addressed to the Chairman, Tender Board, Ministry of Works, Transworks House, Colombo Ceylon, or handed personally to him. The sealed Tenders should state on the cover, particulars of the service, and the name and address of the tenderer.

When applying for Tender Forms, tenderers should produce evidence that they have done similar work elsewhere, preferably in the tropics, and that they have employees on their staff fully qualified to produce the proposed work. They should also produce evidence that they have local agents in Ceylon. They should further be prepared to furnish the names and addresses of their proposed sureties.

Tenderers should keep their Tenders open for a period of 60 days from the closing date of this Tender to enable the consideration of the Tenders received. Tender Forms and connected documents would be issued:

- In Ceylon, by the Chief Engineer (Construction and Maintenance) Waterworks, P.W.D., Ratmalana.
- In the United Kingdom and Overseas by the Crown Agents for Oversea Governments and Administrations, 4 Millbank, London, S.W.1.
- The Tender deposit of tenderers from Ceylon may be made at the P.W.D. HEAD OFFICE, Colombo, or at any Kachcheri, and receipt submitted.
- The Tender deposit and Tender fee for Tenderers from United Kingdom and Overseas may be made to the CROWN AGENTS FOR OVERSEA GOVERNMENTS AND ADMINISTRATIONS, 4 Millbank, London, S.W.1.

## COUNTY BOROUGH OF EAST HAM.

## TENDER FOR LAUNDRY.

TENDERS are invited for the CARRYING OUT of LAUNDRY WORK for the Council's various Establishments for one year commencing 1st April, 1960. Forms of Tender on application to Town Clerk, Town Hall, East Ham, E.6.

Tenders, in plain sealed envelopes, to be delivered to The Worshipful the Mayor, Town Hall, East Ham, E.6, not later than 12 Noon on MONDAY, 29th February, 1960.

The Council do not bind itself to accept the lowest or any Tender.

R. H. BUCKLEY,  
Town Clerk.

## COUNTY BOROUGH OF ROTHERHAM.

## CONTRACT FOR THE SUPPLY OF DUSTBINS FOR THE YEAR 1960-61.

TENDERS are invited for the SUPPLY of 2,500 GALVANISED DUSTBINS, 3¼ cu. ft. capacity, weighing, complete with lid, 28lb., and complying with B.S.5792 of 1947.

Form of Tender and Conditions of Contract may be obtained from the Borough Engineer, Municipal Offices, Rotherham, on application, and are to be returned to me in a sealed envelope, endorsed "Tender for Dustbins," but bearing no other mark indicating the sender, not later than MONDAY, 29th February, 1960.

The Council do not bind itself to accept the lowest or any Tender.

JOHN S. WALL,  
Town Clerk.

Municipal Offices,  
Howard Street,  
Rotherham.

## BOROUGH OF GUILDFORD.

## PARK BARN HOUSING SITE.

## FOOTPATHS AND FORECOURTS.

TENDERS are invited for the FOLLOWING TWO CONTRACTS:

- The Laying of approx. 1,320 lin. yd. of 10in. Kerb; 1,460 lin. yd. of 2in. x 6in. Edging Kerb; Construction of 7,400 sq. yd. of Tarmacadam Footpaths; 3,800 sq. yd. of Garage Forecourts in Hardcore and Bituminous Macadam, together with Surface Water Drainage.
- Grading, Preparation and Seeding of 1.7 acres of House Forecourts.

Tender documents from Borough Engineer and Surveyor, Municipal Offices, High Street, Guildford, Surrey. Tenders to be submitted by Noon on the 2nd MARCH, 1960.

HERBERT C. WELLER,  
Town Clerk.

4th February, 1960.

## URBAN DISTRICT COUNCIL OF MANSFIELD WOODHOUSE.

## ANNUAL TENDER FOR STORES FOR THE YEAR ENDING 31ST MARCH, 1961.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS:—  
Ref. No.

- Tarmacadam.
- Bituminous Macadam.
- Tar for Road Dressings.
- Broken Slag and Granite for Tar Spraying.
- Precast (Granite) Concrete Kerbs.
- Precast (Granite) Concrete Paving Flags.
- Scavenging Brushes and Rotary Sweeper Brushes.

Specifications, Schedules and Forms of Tender may be obtained from the Surveyor and Engineer, Council Offices, Manor House, Mansfield Woodhouse (quote reference number). Tenders must be delivered to the undersigned not later than Noon on SATURDAY, the 27th February, 1960.

C. J. READ JOHNSON,  
Clerk of the Council.

Council Offices,  
Manor House,  
Mansfield Woodhouse,  
2nd February, 1960.



## CONTRACTS

BOROUGH OF ACTON.  
SURFACE DRESSING HIGHWAYS.

THE COUNCIL invite TENDERS for the SURFACE DRESSING of about 120,000 sq. yd. of CARRIAGEWAYS. Forms of Tender may be obtained from the Borough Engineer, and must be returned to the TOWN CLERK, Town Hall, Acton, W.3, in sealed envelopes, endorsed "Tender—Surface Dressing," by 26th FEBRUARY, 1960.

## CITY AND COUNTY OF THE CITY OF CHESTER.

## BLACON TRUNK SEWERS.

TENDERS, on a FIXED-PRICE BASIS, are invited from experienced contractors for the CONSTRUCTION OF TRUNK SEWERS in the BLACON DISTRICT of Chester.

The Works comprise the Supply and Laying of sewers, 1,170 lin. yd. of 33in.-60in. dia. Concrete Pipes, 320 lin. yd. of 30in.-36in. dia. Steel Pipes, 1,070 lin. yd. of 21in.-27in. dia. Steel Pipes elevated on Reinforced Concrete Piers, together with the Construction of Brick Manholes, an Inverted Siphon and ancillary Works.

The Specification, Bill of Quantities and Form of Tender may be obtained from the City Engineer and Surveyor, 49 Northgate Street, Chester, at whose office the Drawings and Conditions of Contract may be inspected. Tenders, in a sealed envelope endorsed "Tender—Blacon Trunk Sewers," must reach the TOWN CLERK, Town Hall, Chester, by SATURDAY, 5th March, 1960.

## CITY OF BIRMINGHAM.

## TO PUBLIC WORKS CONTRACTORS.

The Public Works Committee invite TENDERS on a FIXED-PRICE BASIS for a MEASURE and VALUE CONTRACT for the Maintenance of joints in Concrete-finished Carriageways in Various Roads in the City. Copies of the Specification, Bill of Quantities and Form of Tender may be obtained on payment of £2.25, at the office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room B.21) Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 24th February, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON, Acting Town Clerk.  
Council House, Birmingham, 1.

## BURTON LATIMER URBAN DISTRICT COUNCIL.

## BAKEHOUSE LANE HOUSING SITE.

The above Council is prepared to receive TENDERS from suitably experienced contractors for the CONSTRUCTION of approx. 500 sq. yd. of Tarmac Road, 270 yd. of 6in. dia. Concrete Tube Foul Sewer and 160 yd. of 6in. x 9in. dia. Glazed Stoneware Storm Sewer.

Drawings may be seen at the offices of the Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Milston Road, Leicester, from whom the Specification and Bill of Quantities may be obtained on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders, on the form supplied and in the envelope provided, are to be delivered to the undersigned not later than 10 o'clock in the Forenoon of 8th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. E. LANSOM, Clerk to the Council.

Council Offices, Burton Latimer, Kettering, Northants.

## UTTOXETER URBAN DISTRICT COUNCIL.

## SEWERAGE AND SEWAGE DISPOSAL.

## NORTH END OUTFALL SEWER.

## CONTRACT NO. 1.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of approx. 1,000 lin. yd. of 9in. and 6in. dia. SPUN-IRON PIPE SEWERS and 250 lin. yd. of 12in. dia. CONCRETE PIPE SEWERS, together with Brick Manholes and other incidental works, at UTTOXETER, Staffordshire.

The General Conditions of Contract and Specification, Bills of Quantities and Form of Tender may be obtained from the Engineers, MESSRS. WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3, where the Drawings may be inspected, on delivery to them of a cheque for Five Guineas (drawn in favour of the Uttoxeter Urban District Council) as a deposit which will be refunded after the receipt of a bona-fide Tender, supported by priced Bills of Quantities if required, and the return of all documents.

The Tender is to be delivered, in the envelope provided, to the undersigned not later than 12 o'clock Noon on FRIDAY, the 4th day of March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 3rd day of February, 1960.

JOHN H. KENNY, Clerk of the Council.

Council Offices, The Old Bank House, 72 Holm Street, Uttoxeter.

## STEVENAGE DEVELOPMENT CORPORATION.

## CIVIL ENGINEERING CONTRACTS.

Applications are invited from civil engineering contractors who wish to be considered for invitations to TENDER for civil engineering works to be commenced in 1960 and to be let in contracts of £50,000 or over.

The works include: (1) ESTATE DEVELOPMENT; (2) MAIN DRAINAGE; (3) MAIN ROADS.

Contractors should state the types of work in which they are interested and send with their application the names of two engineers under whom they have executed work and to whom reference may be made. Applications, endorsed "Engineering Contracts," should be submitted to reach the CHIEF ENGINEER not later than 5th March, 1960.

Stevenage Development Corporation, Aston House, Near Stevenage, Herts.

## CONTRACTS

COUNTY BOROUGH OF HASTINGS.  
COLLEGE OF FURTHER EDUCATION—FIRST INSTALMENT.

Contractors are invited to submit TENDERS for the ERECTION of the ABOVE, comprising Single-storey Workshop Block and Three-storey Main Block (part of ultimate seven-storey building) for which Piling and Site Levelling has already been carried out.

Bills of Quantities and Forms of Tender will be available late February, and may be obtained from the Borough Engineer, 37 Wellington Square, Hastings, on receipt of £5 ss., which will be returned after a bona-fide Tender is received.

Sealed Tenders, in an envelope to be provided, should be delivered to the undersigned not later than 10 a.m. on MONDAY, 28th March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

N. P. LESTER, Town Clerk.

Town Hall, Hastings.

## BOROUGH OF RAWTENSTALL.

## TRUNK ROAD, A.56—BURNLEY ROAD, LOVECLOUGH.

## RESURFACING AND RECONSTRUCTION.

TENDERS are invited for the LAYING of some 3,170 sq. yd. of 2½in. SINGE COURSE, HOT ROLLED ASPHALT, also for SUPERELEVATION WORKS in PREMIXED WATERBOUND MACADAM, the surfacing to be of some 110 tons of Bituminous Macadam Base Course and 1,550 super. yd. of 1½in. Hot Rolled Asphalt Wearing Course.

Contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Rawtenstall, Rossendale, Lancs. Sealed Tenders, in the envelope provided, must be returned to the undersigned not later than 12 Noon on MONDAY, the 29th February, 1960.

(Signed) C. CAMPBELL, Town Clerk.

Town Hall, Rawtenstall, Rossendale, Lancs.

29th January, 1960.

## BOROUGH OF LOUGHBOROUGH.

## INDUSTRIAL SITE—DERBY ROAD.

FIXED-PRICE TENDERS are invited for approx. 600 lin. yd. of SURFACE WATER SEWERS, 450 lin. yd. of FOUL SEWERS, together with approx. 3,600 super. yd. of Carriageway, a Reinforced Concrete Pumping Station and other incidental works.

Drawings and General Conditions of Contract may be inspected at, and the Specification, Bills of Quantities and Form of Tender may be obtained from the undersigned, on the deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, to be made out on the form supplied, are to be delivered in a plain sealed envelope endorsed "Industrial Site—Derby Road," and addressed to ARTHUR USHER, Town Clerk, Southfields, Loughborough, not later than Noon on FRIDAY, 11th March, 1960.

JOHN S. BATES, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor.

Southfields, Loughborough.

4th February, 1960.

## BOROUGH OF RAWTENSTALL.

## ANNUAL TENDERS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the year ending 31st March, 1961—

- (1) Fine Cold Asphalt.
- (2) Coated Macadam for Cold Laying.
- (3) Sand and Broken Stone.
- (4) Precast Concrete Kerbs and Flags.
- (5) Salt Glazed Ware Pipes and Fittings.
- (6) Manhole Covers and Frames.
- (7) Gully Grates and Frames.
- (8) 4in. and 6in. Roadstone Chippings.
- (9) White Disinfectant Fluid.
- (10) B.S.S. Galvanised Dustbins.

Contractors desirous of tendering should apply for full particulars to the Borough Engineer and Surveyor, Town Hall, Rawtenstall, in respect of Items (1) to (8), and to the Chief Public Health Inspector, Health Office, Kay Street, Rawtenstall, in respect of Items (9) and (10). Completed Tenders, in plain sealed envelopes, endorsed "Annual Tenders," must be received by the undersigned not later than SATURDAY, 5th March, 1960.

COLIN CAMPBELL, Town Clerk.

Town Hall, Rawtenstall, Rossendale, Lancs.

3rd February, 1960.

## SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

## LITTLETON VILLAGE SEWER.

TENDERS are invited by Noon on MONDAY, 7th March, 1960, for the CONSTRUCTION of approx. 850 yd. of 6in. dia. CAST-IRON SEWER with 6in. Branch Connections, PUMPING STATION, and approx. 100 yd. of 6in. dia. CAST-IRON PUMPING MAIN.

Documents relating to the scheme are in course of preparation and will be sent in due course on application to the Engineer and Surveyor, Council Offices, Green Street, Sunbury-on-Thames. Drawings may be inspected at his Office during normal working hours.

T. WATTS, Clerk of the Council.

Council Offices, Sunbury-on-Thames.

## URBAN DISTRICT COUNCIL OF CORBY.

## HOOD COURT SEWERAGE.

TENDERS are invited for the CONSTRUCTION of 530 yd. of 6in. dia. FOUL and SURFACE WATER SEWERS, with Manholes and ancillary Works.

Contract documents may be obtained from the undersigned upon payment of a deposit of £1 (cheques being made payable to the District Council of Corby), which will be refunded on receipt of a bona-fide Tender.

The Working Drawings may be inspected at the Council Offices during normal office hours. Tenders should be delivered to the undersigned in the envelope provided not later than 9 a.m. on FRIDAY, 4th March, 1960.

G. B. BLACKALL, Clerk of the Council.

Council Offices, Corby, Northants.

3rd February, 1960.

## CONTRACTS

NORFOLK COUNTY COUNCIL.  
AERIAL SURVEYS.

TENDERS are invited for the AERIAL SURVEY of approx. 18 Miles of HIGHWAY, including the Supply of Distortion-free Aerial Photographs. The Survey Plans are to be to a scale of 1:500 with a guaranteed accuracy such that 95 per cent. of all detail shall be plotted within 0.5 mm. of their correct co-ordinate position.

Copies of the Condition of Contract, Specification, Drawings and Form of Tender may be obtained from the County Surveyor, County Offices, Thorpe Road, Norwich, on payment of a deposit of £5, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, should be submitted to the undersigned not later than 12 Noon on 29th FEBRUARY, 1960.

F. P. BOYCE, Clerk to the County Council.

County Offices, Thorpe Road, Norwich (NOR 47A).

2nd February, 1960.

## COUNTY BOROUGH OF IPSWICH.

## SUPPLY OF PAINT.

TENDERS are invited for the SUPPLY of approx. 2,500 gallons of PAINT during the year commencing 1st April, 1960.

List of approved brands, together with Particulars and Forms of Tender, can be obtained from the Borough Engineer and Surveyor, 19 Tower Street, Ipswich.

Tenders, in plain sealed envelopes bearing no name or mark to indicate the sender, and endorsed "Tender for the Supply of Paints," must be sent to me not later than First Post on MONDAY, 29th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON, Town Clerk.

Town Hall, Ipswich.

## STEPNEY METROPOLITAN BOROUGH COUNCIL.

TENDERS are invited for the FOLLOWING WORKS: Schedule "A."—The Removal of surplus Soil and/or Hardcore from Demolished Buildings and Constructional Works.

Schedule "B."—The Removal of surplus Soil and/or Hardcore from Street Works, Sewer Works, Foundations and/or Excavations.

Forms of Tender, with Conditions, etc., obtainable from the Borough Engineer and Surveyor, 227/233 Commercial Road, E.1, upon payment of deposit of Two Guineas. Closing date for Tenders, 29th FEBRUARY, 1960.

WILFRED REEVE, Town Clerk.

Municipal Offices, 227/233 Commercial Road, E.1.

## STEPNEY METROPOLITAN BOROUGH COUNCIL.

TENDERS are invited for the FOLLOWING WORKS: Supplying and Laying Asphalt Paving, as required, for a period of 12 months from the 1st April, 1960.

Forms of Tender, with Conditions, etc., obtainable from the Borough Engineer and Surveyor, 227/233 Commercial Road, E.1, upon payment of a deposit of Two Guineas. Closing date for Tenders, 29th February, 1960.

WILFRED REEVE, Town Clerk.

Municipal Offices, 227-233 Commercial Road, E.1.

## CITY OF LEEDS.

## WATERWORKS DEPARTMENT.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION, COMPLETION and MAINTENANCE of approx. Two Miles of 24in. dia. CAST-IRON MAIN and other works connected therewith, from SPEN GARDENS, WEST PARK, Leeds, to YONGUE LANE, MEANWOOD, Leeds. The Contract does not include the Supply of Cast-iron Pipes and Fittings.

Specification and Contract Drawings, Bill of Quantities and Schedule of Rates and Prices, together with General Conditions of Contract and Forms of Tender and Agreement, may be obtained from the undersigned, upon payment of a deposit of Three Guineas, which will be refunded following the receipt of a bona-fide Tender and the return of all Contract documents.

The whole of the Contract documents, with Bill of Quantities, Schedule of Rates and Prices and Form of Tender, duly completed, must be enclosed in a plain sealed cover addressed to the Town Clerk, endorsed "Tender for 24in. Main," and be delivered at the Town Clerk's Office, Room 47, Civic Hall, Leeds, 1, not later than 12 Noon on FRIDAY, the 4th March, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH L. FORSTER, M.I.C.E., General Manager and Engineer.

Waterworks Department, Civic Hall, Leeds, 1.

3rd February, 1960.

## ROMSEY AND STOCKBRIDGE RURAL DISTRICT COUNCIL.

## ROWNHAMS SEWERAGE—STAGE 1.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION of approx. 1,500 yd. of 6in. and 9in. dia. SPUN-CONCRETE SEWER, with Manholes, Ventilating Shafts, and ancillary Connections, and other works incidental thereto, in the Parish of NURSING AND ROWNHAMS, Hampshire.

Plans may be inspected, and a copy of the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, Telford House, Hulse Road, Southampton.

Tenders, on the form supplied, together with a copy of the priced Bill of Quantities, in a plain sealed envelope endorsed "Rownhams Sewerage—Stage 1," must be delivered to me before Noon on 21st MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. A. TANNER, Clerk of the Council.

Council Offices, Duttons Road, Romsey, Hants.

3rd February, 1960.

## CONTRACTS

## MERIONETH COUNTY COUNCIL.

## HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the SURFACE DRESSING OF TRUNK AND COUNTY HIGHWAYS during the year commencing 1st April, 1960.

Tender Forms, Specification and Conditions of Contract may be obtained by sending a stamped addressed envelope to the County Surveyor, County Offices, Peniarth, Dolgellau.

Tenders, enclosed in a plain sealed envelope, endorsed "Tenders—Surface Dressing," should reach the County Clerk, County Offices, Dolgellau, by not later than MONDAY, the 22nd February, 1960.

## FLINT BOROUGH COUNCIL.

## PEN GOCH HOUSING ESTATE—ADVANCE PREPARATION OF ROADS, SEWERS AND WATER MAINS.

TENDERS are invited for the CONSTRUCTION OF WORKS comprising approx. 7,350 super. yd. of Hardcore Roads, including Formation Excavation to Roads and Footways, Construction of Kerb Rare and 2,450 lin. yd. 21in. to 30in. Foul and Surface Water Sewers, including P.C. and Brickwork Manholes, Road Gullies and incidental Works.

Copies of the Specification, Bill of Quantities and Form of Tender can be obtained from the Borough Engineer and Surveyor, Municipal Offices, Earl Street, Flint, at whose office the Plans and Conditions of Contract can be inspected.

A deposit of Two Guineas is required, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in a plain envelope, sealed and endorsed "Roads, Sewers and Water Mains—Pen Goch Estate," to be delivered to the undersigned not later than 12 Noon on MONDAY, 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

WILLIAM MCINTYRE, Town Clerk.

Town Hall, Flint.

3rd February, 1960.

## BOROUGH OF TOTTENHAM.

## RECONSTRUCTION OF PART OF CLYDE ROAD, N.15.

TENDERS are invited for the RECONSTRUCTION OF CLYDE ROAD from Town Hall Approach Road to the Railway Bridge, an area of 1,356 sq. yd. The carriageway only is to be reconstructed with Bin of lean-mix concrete and 3in. of bitumen macadam.

Firms wishing to tender can obtain contract documents (on deposit of £2) from the Borough Engineer, Town Hall, Tottenham, N.15. Tenders shall be returned not later than WEDNESDAY, 24th February, 1960.

The Council do not undertake to accept the lowest or any Tender.

M. LINDSAY TAYLOR, LL.B., Town Clerk.

## BOROUGH OF SWINTON AND PENDLEBURY.

## BOROUGH SURVEYOR'S DEPARTMENT.

TENDERS are invited for the ERECTION OF TWO BUNGALOWS, with Electric Fire Heating. Details may be obtained from the BOROUGH ENGINEER, Town Hall, Swinton, Lancs. Closing date for receipt of Tenders, 29th FEBRUARY, 1960.

## BOROUGH OF HENDON.

## TENTERDEN CLOSE, HENDON.

The Borough Council invites TENDERS for the MAKING-UP OF TENTERDEN CLOSE N.W.4. under the Highways Act, 1959. Code of Practice, Part 2, Kerbing, Hardcore Foundation, Carriageway Surfacing and Footway Construction.

The Form and Conditions of Tender, Specification and Bills of Quantities will be issued by, and Plans may be inspected at the offices of, the Borough Engineer and Surveyor, to whom applications for the documents must be made not later than SATURDAY, the 20th February, 1960, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender on the form provided and not subsequently withdrawn. Cheques should be payable to Hendon Corporation. Tenders must be received by the 7th MARCH, 1960.

This invitation to Tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS, Town Clerk.

Town Hall, Hendon, N.W.4.

## PORTLAND URBAN DISTRICT COUNCIL.

## ASPHALT SURFACING.

TENDERS are invited for LAYING OF 2,545 sq. yd. OF BITUMINOUS MACADAM AND FINE GRADE ASPHALT SURFACING with Prepared Foundations, on the Completed Section of a New Sea Wall.

Specifications may be obtained from the undersigned, to whom Tenders must be returned in sealed envelope endorsed "Asphalt Surfacing," not later than the 25th FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

E. B. CULLIN, Engineer and Surveyor.

Council Offices, Portland.

## GIPPING RURAL DISTRICT COUNCIL.

## CLAYDON AND GREAT BLAKENHAM SEWERAGE SCHEME.

TENDERS are invited for the CONSTRUCTION, TESTING AND MAINTENANCE OF SPUN-IRON CONCRETE AND GLAZED STONWARE SEWERS, THREE PUMPING STATIONS, ASBESTOS-CEMENT PUMPING MAINS, MANHOLES and all other Works incidental thereto.

A copy of the Contract documents may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BUTLER, 59 Tufnell Street, Westminster, S.W.1, upon payment of a deposit cheque for Five Guineas, made payable to the Council, which will be returned on receipt of a bona-fide Tender and the return of all documents. The Form of Tender and a Priced Bill of Quantities must be delivered in a sealed envelope endorsed "Tender for Claydon and Great Blakenham Sewerage Scheme," to the undersigned before Noon on MONDAY, 14th March, 1960.

The Plans and Drawings may be seen during normal working hours at the offices of the Consulting Engineers of the Council.

The Council do not bind themselves to accept the lowest or any Tender.

W. M. BENNETT, Clerk of the Council.

Council Office, Needham Market, Ipswich.

## CONTRACTS

## EAST SUFFOLK COUNTY COUNCIL.

## CONTRACT NO. 20.

TENDERS are invited for the SUPPLY, HEATING AND SPRAYING OF approx. 520,000 GALLONS OF TAR, TAR-COMPOUND and CUT-BACK BITUMEN. (This is the total for the whole county, divided into five areas. Tenders will be considered for the total, or one or more areas.) The County Council will undertake the work of preparing the road for surface dressing and the provision, application and, where necessary, the rolling of binding material. The Work will be subject to the L.C.E. Conditions of Contract, without variation of price.

Specification, Form of Tender with Appendix to the Standard Conditions may be obtained from the County Surveyor, County Hall, Ipswich, upon payment of Two Guineas deposit, which will be refunded after receipt of a bona-fide Tender. Sealed Tenders must be delivered to the undersigned not later than 10 a.m. on MONDAY, 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. C. LIGHTFOOT, Clerk of the County Council.

County Hall, Ipswich.

4th February, 1960.

## METROPOLITAN BOROUGH OF CAMBERWELL.

## SURFACE DRESSING.

TENDERS invited for SURFACE DRESSING approx. 121,000 sq. yd. of CARRIAGEWAY with HOT CUT-BACK BITUMEN.

Tender Form and details from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5 Closing date, 18th FEBRUARY, 1960.

## METROPOLITAN BOROUGH OF CAMBERWELL.

## REFUSE CONTAINERS.

TENDERS invited for SUPPLY OF 1 1/4 cu. yd. capacity Scammell Type REFUSE CONTAINERS.

Tender Form and details from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5 Closing date, 20th FEBRUARY, 1960.

## BOROUGH OF CHATHAM.

## RESURFACING OF LUTON HIGH STREET AND MAIDSTONE ROAD (PART).

TENDERS are invited for the ABOVE WORKS, comprising the Mechanical Laying of Fine Cold Asphalt, 3in. thick to approx. 3,500 sq. yd. in LUTON HIGH STREET, and 3,865 sq. yd. in MAIDSTONE ROAD.

Forms of Tender, Specification and Bills of Quantities can be obtained from, and General Conditions of Tender and Contract can be seen at, the office of MR. I. A. T. RICHARDS, Borough Engineer and Surveyor, Town Hall, Chatham, on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender or the return of all documents.

Tenders must be delivered to the undersigned by Noon on MONDAY, 22nd February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROWLAND NEWNES, Town Clerk.

Town Hall, Chatham.

January, 1960.

## BOROUGH OF HAMPSTEAD.

## PRINTING.

TENDERS are invited for PRINTING COUNCIL AGENDA, MINUTES, INDEX AND ELECTION FORMS for one or three years from 1st April, 1960.

Tender Forms and Conditions obtainable from the undersigned.

Closing date for Tenders: 26th FEBRUARY, 1960.

The Council is not bound to accept the lowest or any Tender.

B. H. WILSON, Town Clerk.

Town Hall, Hampstead, N.W.3.

1st February, 1960.

## PLYMOUTH CITY WATERWORKS.

TENDERS are invited for the SUPPLY OF 4,600 yd. of 24in. dia. CONCRETE LINED SPUN-IRON PIPE with Special Coatings to B.S.1711:1958, Class C.

Forms of Tender and details from the Water Engineer, 22 Portland Square, Plymouth.

Tenders to be received by the TOWN CLERK, Council House, Riverell, Plymouth, by Noon, 15th FEBRUARY, 1960.

## DEBEN RURAL DISTRICT COUNCIL.

## WATER SOFTENING PLANT.

## PETTISTREE PUMPING STATION.

TENDERS are invited from specialist firms for the SUPPLY AND INSTALLATION OF WATER SOFTENING PLANT at the COUNCIL'S PUMPING STATION at Pettistree.

The plant is to be a base exchange type, capable of treating raw water having a total hardness of 430 p.p.m. and reducing this to a resultant distributed hardness of 150 p.p.m. at flow rates of up to 22,000 gallons per hour.

Copies of the Specification, Drawing and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Melton Hill, Woodbridge, Suffolk, upon deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders must be delivered to the undersigned in the envelope provided not later than Noon, 18th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

T. DYMOND HOCKINGS, Clerk of the Council.

Council Offices, Melton Hill, Woodbridge.

## CAERNARVONSHIRE EDUCATION COMMITTEE.

## BUILDING WORKS.

Building contractors wishing to TENDER for (a) NEW KITCHEN AND DINING ROOM at YSGOL DYFFRYN NANTLE, PENYRGROF, and (b) EXTENSIONS to BOTTWNOG GRAMMAR SCHOOL, are requested to send their names to the DIRECTOR OF EDUCATION, Education Offices, Caernarvon, not later than the 16th FEBRUARY, 1960, accompanied by a deposit cheque for £2 2s. for each job, payable to the County Treasurer and returnable on receipt of a bona-fide Tender. It is anticipated that the Bills of Materials will be available at the end of February, 1960.

## CONTRACTS

## STAFFORDSHIRE COUNTY COUNCIL.

## HIGHWAYS ACT, 1959—PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP OF THREE PRIVATE STREETS:

- (1) Adamthwaite Drive, off Uttometer Road, Blythe Bridge (length 437 yd.).
- (2) Bldgeway Drive, off Grindley Lane, Blythe Bridge (length 400 yd.).
- (3) Queen Street, off Werton Road, Audley (length 81 yd.).

The Work includes Excavation, Providing Two Layers of 2in. Broken Stone to 6in. depth laid on 3in. Ashes, and Surfacing of 3in. Bituminous Macadam, P.C. Concrete Kerbs, Footpaths of Bituminous Macadam and Cold Asphalt and incidental Works, the Provision of Stoneware Surface Water Drains with Brick Manholes and Gullies.

Applications for Contract documents should be made to the undersigned and must be accompanied by a deposit of Five Pounds (£5), which will be refunded on receipt of a bona-fide Tender or return of the Contract documents before the closing date.

Completed Tenders should reach the undersigned not later than 10 a.m. on 3rd MARCH, 1960.

T. H. EVANS, Clerk of the County Council.

County Buildings, Stafford.

## SURREY COUNTY COUNCIL.

## HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for REKERBING, MAKING-UP SUPERELEVATION AND RESURFACING in 1 1/2 in. SINGLE COURSE BITUMINOUS MACADAM on the UNDERMENTIONED SECTIONS OF ROAD:

Reigate-Dorking Road (A.25).—Between Buckland and Betchworth, approx. 1,100 lin. yd. London-Brighton Trunk Road (A.23).—Between

The Chequers and Cross Oak Lane, Horley, approx. 1,200 lin. yd. (including the Construction of a Bus Layby in Concrete). London-Portsmouth Trunk Road (A.3).—At Hindhead Cross Roads.

Particulars and Forms of Tender, returnable by First Post, 22nd FEBRUARY, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

## BOROUGH OF PORT TALBOT.

## COMPLETION OF ROADWORKS AT LITTLE WARREN.

TENDERS are invited for ROAD COMPLETION WORKS in connection with the ABOVE HOUSING SITE, comprising the following:

- 8,000 yd. sup. Road Surfacing.
- 2,000 yd. lin. of Kerbing.
- 4,000 yd. sup. of Footpath Surfacing.

Drawings may be inspected at the Municipal Buildings, Port Talbot, and Specifications, Bills of Quantities and Form of Tender may be obtained upon application to the Borough Engineer, Mr. G. V. GRIFFITHS, A.M.I.C.E., on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain envelopes, endorsed "Completion of Roadworks—Little Warren," to be received by the undersigned not later than Noon, 22nd FEBRUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. KING DAVIES, Town Clerk.

Municipal Buildings, Port Talbot.

3rd February, 1960.

## BOROUGH OF WORKSOP.

## ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY OF the FOLLOWING ITEMS during the year commencing 1st April, 1960:

- (1) Common Bricks.
- (2) Bituminous Emulsions.
- (3) Reblasting of Sweeper Brushes.
- (4) Cement.
- (5) Concrete Kerb and Flags.
- (6) Sand and Gravel.
- (7) Dry, Tarred and Bituminised Slag.
- (8) Pitching and Blinding Stone.
- (9) Road Tar.
- (10) Hire of Lorries.
- (11) Salt.
- (12) Liquid Chlorine.
- (13) Stoneware Pipes and Fittings.
- (14) Coal.
- (15) Solid or Rock Salt.
- (16) Winter Grit.
- (17) Truck-mixed Concrete.
- (18) Premixed Waterbound Macadam.
- (19) Overalls.
- (20) Red Shale.

Tender Forms may be obtained from the Borough Engineer, Park House, Worksop.

Closing date for Tenders, 29th FEBRUARY, 1960

R. C. PHAROAH, Town Clerk.

Town Hall, Worksop.

## CITY OF MANCHESTER.

## PAINTING OF STREET LIGHTING STANDARDS.

TENDERS are invited for the CLEANING AND PAINTING OF approx. 3,800 STEEL STANDARDS AND 2,700 CAST-IRON PILLARS in Manchester. The work is to be divided into three contracts.

Tender documents (returnable by 9.30 a.m., 29th FEBRUARY, 1960) from the CITY SURVEYOR, Town Hall, Manchester, 2.

## CITY OF MANCHESTER.

## DIVERSION OF THE RIVER MEDLOCK—DEMOLITION OF BUILDINGS IN THE LONDON ROAD AREA.

TENDERS are invited for the DEMOLITION OF DWELLINGS, SHOPS and other PREMISES near the junction of LONDON ROAD and DOWNING STREET.

Tender documents (returnable by 29th FEBRUARY, 1960) from the CITY SURVEYOR, Town Hall, Manchester, 2.

## FLINTSHIRE EDUCATION COMMITTEE.

## PHYSICAL EDUCATION EQUIPMENT.

TENDERS are invited for the SUPPLY OF the FOLLOWING:

- (1) Physical Education Equipment for Primary and Secondary Schools.
- (2) Agility Apparatus for Physical Education in Primary Schools.

Form of Tender, available from the DIRECTOR OF EDUCATION, County Education Offices, Mold, Flintshire, should be returned in sealed envelopes, suitably endorsed, by not later than Noon on FRIDAY, the 26th February, 1960.



## CONTRACTS

**DENBIGHSHIRE COUNTY COUNCIL.**  
**HOT ROLLED ASPHALT SURFACING AT ABERGELE.**

**FIXED-PRICE TENDERS** are invited from contractors experienced in this class of work for the SURFACING of approx. 5,000 sq. yd. of CARRIAGEWAY with HOT ROLLED ASPHALT.

Tender documents may be obtained on application to the County Surveyor, 46 Clwyd Street, Ruthin. Tender and completed documents are to be enclosed in a sealed envelope, endorsed "Asphalt Surfacing—Abergele," and must be delivered to the undersigned by Noon on **MONDAY, 22nd February, 1960.**

W. E. BUFTON,  
Clerk of the County Council.

County Offices,  
Ruthin.

**COUNTY BOROUGH OF OLDHAM.**

**TENDERS** are invited for the SUPPLY and DELIVERY to the Corporation's various depots of PETROL, DIESEL OIL, LUBRICATING OIL, TRACTOR VAPOURISING OIL and PARAFFIN during the period 1st April, 1960, to the 31st March, 1961.

Tender Forms are obtainable from, and must be returned by post to, the undersigned, so as to arrive by 10 a.m. on **FRIDAY, 19th February, 1960.**

Tenders must be returned, in plain sealed envelopes, not bearing any name or mark indicating the sender, and endorsed "Tender for the Supply of Petrol, etc."

EDWARD HAINES,  
Town Clerk.

Town Hall,  
Oldham.

1st February, 1960.

**URBAN DISTRICT COUNCIL OF BASILDON.****DEVONSHIRE ROAD (LAINDON) HOUSING SITE—FOOTWAYS AND VERGES.**

**TENDERS** are invited for the ABOVE WORKS, comprising 1,250 sq. yd. of Tarmacadam Footway and 860 lin. yd. of Concrete Edging, together with appurtenant works.

Experienced contractors wishing to Tender should apply to the COUNCIL'S ENGINEER AND SURVEYOR, 108 High Street, Billericay, Essex, by 18th FEBRUARY, 1960, the application to be accompanied by a deposit of £2 2s. (Two Guineas), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

The Council does not bind itself to accept the lowest or any Tender.

**EGHAM URBAN DISTRICT COUNCIL.****MAINTENANCE OF HIGHWAYS, ETC.**

**TENDERS** are invited in connection with the EXECUTION OF MINOR MAINTENANCE ITEMS ON HIGHWAYS, etc., during the year ending 31st March, 1961.

A copy of the Schedule of Rates and other contract documents may be obtained from the Engineer and Surveyor on submission of a deposit of £2 2s., which will be returnable on the receipt of a bona-fide Tender by Noon on 5th MARCH, 1960.

H. R. K. SMITH,  
Clerk of the Council.

Council Offices,  
High Street,

Egham, Surrey.

**WIRRAL URBAN DISTRICT COUNCIL.****RELIEF SEWER—MEADWAY, HESWALL.**

**FIXED-PRICE TENDERS** are invited for SUPPLYING and LAYING approx. 77 lin. yd. of 15in. dia. GLAZED STONEWARE PIPES, 75 lin. yd. of 12in. dia. GLAZED STONEWARE PIPES, 128 lin. yd. of 9in. dia. GLAZED STONEWARE PIPES, together with ancillary works.

The Specification, Bill of Quantities and Form of Tender may be obtained on application to the Engineer and Surveyor, Council Offices, Heswall, at which Office the Conditions of Contract and Contract Drawings may be inspected.

Tenders, in plain sealed envelopes, endorsed "Relief Sewer—Meadway, Heswall," must be delivered to the undersigned not later than 10 a.m. on **FRIDAY, 11th March, 1960.**

The Council does not bind itself to accept the lowest or any Tender.

W. F. ROBERTS,  
Clerk of the Council.

Council Offices,  
Heswall, Wirral.

**WOKING URBAN DISTRICT COUNCIL.****BOUNDARY FENCING INDUSTRIAL SITES.**

**TENDERS** are invited for ERECTION of approx. 1,400 yd. CHAIN LINK FENCING at OLD WOKING and MONUMENT BRIDGE INDUSTRIAL SITES.

Tender documents from Engineer and Surveyor on payment of Two Guineas deposit, refundable only on receipt bona-fide Tender, not subsequently withdrawn. Plans seen normal hours at Engineer's Office. Tenders to CLERK OF COUNCIL, Council Offices, Guildford Road, Woking, by 8.45 a.m., 22nd FEBRUARY, 1960.

**THORNBURY RURAL DISTRICT COUNCIL.****SITE PREPARATION WORKS AND ERECTION OF DWELLINGS AT UPPER BATH ROAD AND CHAPEL STREET, THORNBURY.**

The Council invite TENDERS for SITE PREPARATION WORKS AND ERECTION OF DWELLINGS on the ABOVE-MENTIONED SITE (36 units of accommodation).

Tender documents for site preparation works and erection of dwellings are obtainable separately from the Council's Architects, MESSRS. RAINGER, ROGERS AND SMITHSON, FF.A.A., R.I.B.A., Glenore Lodge, Wellington Square, Cheltenham, Glos., not later than **SATURDAY, 20th February, 1960.**

Applications for documents must be accompanied by deposits of £3 3s. in respect of site works, and £3 3s. in respect of erection of dwellings, which will be refunded upon receipt of bona-fide Tenders, not subsequently withdrawn.

On being supplied with Tender documents, contractors will be notified by the Architects of the date by which Tenders must be submitted. Tenders, in sealed envelopes, endorsed "Site Preparation Works—Thornbury," or "Erection of Dwellings—Thornbury," must be delivered to the undersigned.

The Council do not bind themselves to accept the lowest or any Tender, and the acceptance of a Tender will be subject to the approval of the Ministry of Housing and Local Government.

J. L. JUDD,  
Clerk of the Council.

Council Offices,  
Castle Street,

Thornbury,

Bristol.  
6th February, 1960.

## CONTRACTS

**COUNTY BOROUGH OF SOUTHPORT.**

**TENDERS** are invited for the ERECTION of a SHOWER and CHANGING ROOM BLOCK at the KING GEORGE V SCHOOL, SCARISBRICK NEW ROAD.

Bills of Quantities can be obtained from the Borough Architect and Town Planning Officer, 99/105 Lord Street, on payment of Two Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Drawings can be seen during the normal office hours. Tenders to be delivered to the undersigned not later than the 11th MARCH.

R. EDGAR PERRINS,  
Town Clerk.

Town Hall,  
Southport.

**BOROUGH OF WANSTEAD AND WOODFORD.**

**TENDERS** are invited for the PROVISION and LAYING BY MACHINE of approx. 9,200 sq. yd. of FINE COLD ASPHALT as SURFACING to existing CARRIAGEWAY OF LAKE HOUSE ROAD, together with appurtenant works.

Tender documents should be obtained from the BOROUGH ENGINEER AND SURVEYOR, Municipal Offices, High Road, E.18, on payment of £2 deposit, which will be returned on receipt of a bona-fide Tender. Sealed Tenders to be delivered to him by Noon on 29th FEBRUARY, 1960.

**BOROUGH OF ELLESMERE PORT.****CONTRACT NO. 289.**

**GARAGES AND SITE WORKS, SITE NO. 7 AND EXTENSION, MILL LANE OVERPOOL ROAD, ELLESMERE PORT.**

**TENDERS** are invited for the ERECTION of 28 LOCK-UP GARAGES and ancillary works, together with Site Works at the ABOVE.

Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on and after **SATURDAY, 13th February, 1960.**

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by not later than 5 p.m. on **MONDAY, 29th February, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,  
Town Clerk.

Municipal Offices,  
Ellesmere Port.

11th February, 1960.

**BOROUGH OF ELLESMERE PORT.****CONTRACT NO. 288.**

**GARAGES AND SITE WORKS, SITE NO. 4—ATHERTON ROAD, ELLESMERE PORT.**

**TENDERS** are invited for the ERECTION of 25 LOCK-UP GARAGES and ancillary works, together with Site Works at the ABOVE.

Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on and after **SATURDAY, 13th February, 1960.**

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by not later than 5 p.m. on **MONDAY, 29th February, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,  
Town Clerk.

Municipal Offices,  
Ellesmere Port.

11th February, 1960.

**BOROUGH OF REDCAR.****STREET LIGHTING—REDCAR LANE.**

**TENDERS** are invited for the ERECTION of STREET LIGHTING UNITS in Redcar. The units consist of E.L.E.C.O. Columns and Lanterns.

The Form of Tender and Specification may be obtained from the Borough Engineer, Ridley House, Coatham Road, Redcar, at whose Office these documents and Drawings may be inspected during office hours.

Tenders, in the envelopes supplied, bearing no mark indicating the sender and endorsed "Street Lighting—Redcar Lane," must be received by the undersigned not later than Noon on **FRIDAY, 26th February, 1960.**

HUGH CALDWELL,  
Town Clerk.

Municipal Buildings,  
Redcar.

**BOROUGH OF ROWLEY REGIS.****OLD HILL MAIN STORMWATER SEWER.**

**TENDERS** are invited for the REGRADING of 300 lin. yd. of MOUSEWET BROOK, the CONSTRUCTION of approx. 190 lin. yd. of BRICK/CONCRETE OUTFALL and CULVERT in BROOK LANE, and 700 lin. yd. of 36in. to 54in. dia. STORMWATER SEWER, together with Manholes and ancillary works between KING STREET and WRIGHTS LANE.

Specification and Bills of Quantities may be obtained from, and Conditions of Contract and Plans inspected at, the Office of the Borough Engineer and Surveyor, S. G. WOOD, M.I.Mun.E., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn.

Tenders must be sent to the undersigned, in the envelope provided, endorsed "Old Hill Main Stormwater Sewer," so as to arrive not later than 12 Noon on **WEDNESDAY, 2nd March.**

JOHN HILTON,  
Town Clerk.

Municipal Buildings,  
Old Hill, Staffs.

5th February, 1960.

**ASHFORD (KENT) URBAN DISTRICT COUNCIL.**

**FIXED TENDERS** are invited for the ERECTION of the FOLLOWING:

- Filter House—Beaver Road Swimming Bath, Ashford.
- Public Conveniences—Odeon Car Park, Ashford.

The work on site (a) comprises a Timber Filter House, Concrete Cascade and Excavations for filter plant; site (b) comprises Ladies' and Gents' Conveniences in one building.

Drawings, Specification and Form of Tender may be obtained from the Surveyor, 1 Elwick Road, Ashford, Kent, by 12th FEBRUARY, 1960.

Sealed Tenders, in the envelope provided, are to be delivered by not later than Noon on 24th FEBRUARY, 1960.

G. H. REDFERN,  
Clerk of the Council.

Council Offices,  
Church Road,

Ashford, Kent.

2nd February, 1960.

## CONTRACTS

**BOROUGH OF SLOUGH.****HIGHWAYS CONSTRUCTION AND IMPROVEMENT.**

**TENDERS** are invited for CARRYING OUT the FOLLOWING WORKS in 1960/61 on a Schedule of PRICES:

Footway and Carriageway Construction.

Kerbing and incidental works.

Surface Water Drainage and Sewerage Works.

Specification, Schedule of Prices, Form of Tender and details of the proposed works obtainable from Borough Engineer, Town Hall, Slough, Bucks., on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders must be returned to the TOWN CLERK, Town Hall, Slough, Bucks., in the envelope provided, by Noon on 3rd MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

**BOROUGH OF RUGBY.****MODERNISATION OF 100 COUNCIL HOUSES AT CROOP HILL ESTATE.**

The CORPORATION invite TENDERS for the PROVISION OF BATHROOMS, INSTALLATION OF DOMESTIC HOT WATER SYSTEMS and incidental works at THESE HOUSES.

Specification, Drawing and Form of Tender may be obtained from the Borough Surveyor, Burford House, Rugby, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender. Tenders, in the envelope provided, must be delivered to the undersigned at "The Lawn," Newbold Road, Rugby, not later than Noon on 1st MARCH, 1960.

The Corporation do not undertake to accept the lowest or any Tender.

T. L. DUFFY,  
Town Clerk.

**BOROUGH OF DARTFORD.****GROUP "B" STREET LIGHTING—OAKFIELD LANE.**

**TENDERS** are invited for SUPPLY and ERECTION of 30 complete LIGHTING UNITS, comprising 15ft. Tubular Steel Columns, 80-Watt Mercury Vapour Lamps and Lanterns.

The Form of Tender and other documents can be obtained on application to the undersigned upon payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of all documents supplied, other than one copy of the Bill of Quantities.

Tenders, in a plain sealed envelope, marked "Oakfield Lane Street Lighting," but not bearing any name or mark indicating the sender, must be received by me not later than 12 Noon on **TUESDAY, 1st March, 1960.**

The Corporation does not bind itself to accept any Tender.

THOS. ARMSTRONG,  
Town Clerk.

Council Offices,  
Dartford.

**CITY OF MANCHESTER.**

**TENDERS** invited for ELECTRICAL INSTALLATION to "TEMPLEMEAD" HOME FOR AGED PERSONS at WOODHOUSE PARK.

Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by MARCH 14th.

**CITY OF MANCHESTER.**

**TENDERS** invited for PAINTING and DECORATING at various SCHOOLS. Specification from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by MARCH 4th.

**LEATHERHEAD URBAN DISTRICT COUNCIL.****PRIVATE STREET WORKS ACT, 1892.**

**TENDERS** are invited for MAKING-UP PRIVATE STREET, STAG LEYS, ASHTEAD.

Tender documents may be obtained from and Drawings examined at the Engineer and Surveyor's Department, Red Hill, Leatherhead.

Tenders, in envelopes provided, to be delivered to the undersigned by Noon, 9th MARCH, 1960.

J. EDE,  
Clerk of the Council.

Council Offices,  
Leatherhead.

**CHIGWELL URBAN DISTRICT COUNCIL.****FAIRVIEW ROAD, CHIGWELL.**

The Council invites TENDERS for WORKS comprising approx. 270 lin. yd. Surface Water Sewer, Carriageway Drainage, 680 lin. yd. Kerbing, 1,970 sq. yd. Carriageway, 730 sq. yd. Footways.

Tender Forms, Bills and Specification on deposit of £2 2s. (returnable after submission of bona-fide Tender not subsequently withdrawn and return of documents) from Engineer and Surveyor (address below, where Drawings and Contract Conditions may be inspected). Contract will provide for Fair Wages Clause and Bond.

Tenders, in sealed envelope (provided), bearing no mark indicating sender, to be delivered to the CLERK OF THE COUNCIL, Council Offices, Old Station Road, Loughton, Essex, by 1st MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

**HAMBLEDON RURAL DISTRICT COUNCIL.****ALTERATIONS, REPAIRS AND GENERAL MAINTENANCE WORKS TO GARAGE BLOCK AT PUBLIC HEALTH DEPOT, ALFOLD ROAD, CRANLEIGH.**

**TENDERS** are invited from building contractors for ALTERATIONS, REPAIRS AND GENERAL MAINTENANCE WORKS TO BLOCK OF GARAGES to house Nine Vehicles at the Public Health Depot, Alfold Road, Cranleigh.

Plan, Specification and Form of Tender may be obtained from the Office of the Engineer and Surveyor on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender and the return of all documents. (Cheques should be made payable to the Hambledon Rural District Council, crossed Lloyds Bank Limited, and sent to the Treasurer, Council Offices, Bury Fields, Guildford.)

Tenders, in the endorsed envelopes provided, are to be returned to the undersigned not later than 12 Noon on **MONDAY, 7th March, 1960.**

The Council do not bind themselves to accept the lowest or any Tender.

Dated this 5th day of February, 1960.

ROBIN J. GARLAND,  
Clerk of the Council.

Council Offices,  
Bury Fields,

Guildford, Surrey.



## CONTRACTS

## COUNTY BOROUGH OF SOUTHEAST-ON-SEA.

## CONSTRUCTION OF FOOTBRIDGE.

Contractors interested in submitting a TENDER for the CONSTRUCTION of PIER HILL FOOTBRIDGE and incidental works in connection therewith, should submit their names, together with a deposit of £2, before 16th FEBRUARY, 1960, to the Borough Engineer and Surveyor for inclusion on a list of contractors from whom TENDERS will be invited. The deposit will be refunded on receipt of a bona-fide Tender and/or the return of all loaned documents. Sealed Tenders, addressed to the undersigned and endorsed "Pier Hill Footbridge," are to be delivered to this Office by 3 p.m. on a date to be specified, and no Tender received thereafter will be considered. No Tender shall be received except in the special envelope provided, which shall not bear any name or mark indicating the tender. The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN.

Town Clerk.

Municipal Buildings,  
Southend-on-Sea.

## COUNTY BOROUGH OF MIDDLESBROUGH.

- (a) 10 RUNGALOWS, 32 FLATLETS AND FOUR HOUSES ON SITE ADJOINING ALBERT COCK'S HOME, RAINFOUR CRESCENT, THORNTREE.  
(b) 20 HOUSES GROUP 27—PALLISTER PARK.  
(c) 10 POLICE HOUSES—GROUP 20—EASTERSIDE.

TENDERS are invited for the ERECTION of the ABOVE DWELLINGS.  
Bills of Quantities from Borough Engineer, Municipal Buildings, Middlesbrough; deposit Two Guineas each. Tenders to be received by TOWN CLERK on or before MONDAY, 7th March, for (a) and (b), and TUESDAY, 8th March, for (c).  
H. D. A. ROBERTSON,  
Town Clerk.

## CITY OF CARLISLE.

## WILLOW HOLME INDUSTRIAL ESTATE—ROADS AND SEWERS.

TENDERS are invited for the ABOVE. The work comprises Construction of approx. 2,200 sq. yd. of Reinforced Concrete Carriageway, Kerbing, 380 lin. yd. of 6 in. and 12 in. dia. Sewers, and ancillary works. Particulars from City Surveyor, 18 Fisher Street. Closing date, THURSDAY, 25th February, 1960.

H. D. A. ROBERTSON,

Town Clerk.

## FARNHAM URBAN DISTRICT COUNCIL.

## VICTORIA ROAD CAR PARK (PHASE 2).

The Council invite TENDERS for the CONSTRUCTION of the ABOVE WORKS, the approx. quantities being—

- (a) Demolition of existing Buildings.  
(b) 3,000 cu. yd. Excavation.  
(c) 5,000 yd. sup. Hardcore Foundations.  
(d) 6,000 yd. sup. Bituminous Macadam Surfacing.  
(e) Ancillary Drainage Works.

Form of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineer and Surveyor, Council Offices, South Street, Farnham, on the deposit of £2 2s., which is returnable on the receipt of a bona-fide Tender and/or the return of all documents.

General Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor during normal working hours. Tenders to be returned, in the endorsed envelope provided, to the undersigned not later than 12 Noon, TUESDAY, 8th March, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. UNDERDOWN,  
Acting Clerk of the Council.Council Offices,  
South Street,  
Farnham.

## FAREHAM URBAN DISTRICT COUNCIL.

## WESTERN WARDS MAIN DRAINAGE.

The Council invite TENDERS for the CONSTRUCTION of approx. 10,300 lin. yd. of 6 in. dia. STONEWARE, CONCRETE and SPUN-IRON PIPE SEWERS, including a Tidal Outfall, together with the necessary Manholes, etc.; the CONSTRUCTION of a SCREENING and DISINTEGRATOR STATION and a SMALL PUMPING STATION IN REINFORCED CONCRETE, and all appurtenant works.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineer, MESSRS. WATERHOUSE AND ROBIN THWAITE, MM.Inst.C.E., 165 Westmorland Road, Newcastle upon Tyne, 4, upon payment of a deposit of Five Guineas, which will be returned on receipt of a bona-fide Tender.

Drawings illustrating the works to be carried out may be inspected at the Offices of the Council's Engineer and Surveyor, Westbury Manor, Fareham, Hants., or the Offices of the Consulting Engineers.

Tenders should be delivered to me, the undersigned, in a plain sealed envelope endorsed "Western Wards Main Drainage," not later than 10th MARCH 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. W. RANDS,  
Clerk to the Council.Merton,  
5 Grove Road,  
Fareham, Hants.

## PETERBOROUGH RURAL DISTRICT COUNCIL.

## STREET LIGHTING—TRUNK ROAD A.47: AILSWORTH, CASTOR AND EYE.

TENDERS are invited for the ERECTION and INSTALLATION OF STEEL COLUMNS AND ELECTRICAL EQUIPMENT for 5 GROUP "A" SODIUM STREET LIGHTING UNITS.

Form of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineer, STIRLING, MAYNARD AND PARTNERS, 8 Station Chambers, Peterborough, on payment of a deposit of £2 2s., to be refunded on receipt of a bona-fide Tender. Drawings and General Conditions of Contract may be inspected at the above address.

Tenders, in plain sealed envelopes endorsed "Street Lighting—A.47," must be received by the undersigned not later than FRIDAY, 26th February, 1960.

The Council do not bind itself to accept the lowest or any Tender.

G. W. WRIGHT,

Clerk of the Council.

51 Priestgate,  
Peterborough.

8th February, 1960.

## CONTRACTS

## COUNTY BOROUGH OF CROYDON.

ANNUAL TENDERS are invited for SUPPLYING MATERIALS and SUPPLYING CARRIAGEWAYS by an approved mechanical spreader machine for—

- (i) Cold Asphalt, approx. 67,250 yd. sup.  
(ii) Rolled Asphalt, approx. 12,000 yd. sup.  
(iii) Granite/Gravel Asphalt Base Course, approx. 1,400 yd. sup.  
(iv) Bitumen Macadam Carpet, approx. 6,000 yd. sup.

Some of these carriageways are required to be burned off and planned before surfacing (approx. 48,000 yd. sup.).  
Particulars and Form of Tender from the Borough Engineer. Closing date for Tenders, 29th FEBRUARY, 1960.

E. TABERNER,

Town Clerk.

## STAFFORDSHIRE POTTERIES WATER BOARD.

## SHOOTERSHILLS RESERVOIR—CONTRACT NO. 55.

The Board invite TENDERS from civil engineering contractors experienced in this class of work for the CONSTRUCTION of a WATERTIGHT REINFORCED CONCRETE RESERVOIR of 200,000 gallons capacity in four units of 500,000 gallons at SANDON ROAD, near LONGTON, STOKE-ON-TRENT.

The Form of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from the undersigned on deposit of a cheque for Five Guineas, which will be returned on receipt of a bona-fide Tender, not subsequently withdrawn.

Plans of the proposed works may be inspected at the Engineer and Manager's Office.

Two separate Tenders are required:

- (1) Tender with variations in wages and materials.  
(2) Tender on fixed-price basis without any variation being allowed in wages and materials.

The two Forms of Tender and annexed documents, completed on the alternative basis mentioned above, must be enclosed in the plain envelope provided, endorsed "Tender for Shootershills Reservoir," and addressed to the Chairman, Staffordshire Potteries Water Board, c/o Engineer and Manager's Office, Albion Street, Hanley, Stoke-on-Trent, and delivered not later than 12 Noon on MONDAY, 14th March, 1960. The envelope must not bear any name or mark indicating the tender. At the same time, copies of the completely priced Bills of Quantities for each of the alternative basis mentioned above must be delivered in one separate sealed envelope, similarly addressed, within the same time. This sealed envelope must be endorsed "Priced Bills for Shootershills Reservoir," and bear the tenderer's name.

Tenders which do not comply with the above requirements will not be considered.

The Board do not bind themselves to accept the lowest or any Tender.

C. V. BROWN,  
M.I.C.E., M.I.Mech.E., M.I.W.E.,  
Engineer and Manager and Clerk.Albion Street,  
Hanley.

Stoke-on-Trent.

**CARR'S QUIPS—ESTIMATES.** If to send out estimates you really must—then send them to someone you can trust. —R. J. CARR, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

## WANTED TO HIRE OR SUB-CONTRACT.

6/12 large TYPING LORRIES. Surrey district. —SAM BOOTH, LTD., Perryvorn Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126.

For Contracts received too late for classification see page 709

## APPOINTMENTS VACANT

## COUNTY BOROUGH OF BARNSLEY.

## WATER DEPARTMENT.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING POSITIONS on the establishment of the water department:—

- (1) Maintenance Superintendent, Grade A.P.T. III.  
(2) Assistant Maintenance Superintendent, Grade Miscellaneous VI.  
(3) Assistant District Superintendent, Grade Miscellaneous V.

For posts (1) and (2) applicants should have experience of large diameter main laying and the organisation and control of the work of a waterworks depot and yard.

For post (3) knowledge and experience of the running and maintenance of mechanical filters and treatment works is essential.

Further information about the posts and the conditions of service and forms of application may be obtained from the undersigned, by whom applications must be received by MONDAY, the 15th February, 1960.

W. GORDON LEES,

Waterworks Office,  
Town Hall,  
Barnsley.

January, 1960.

## BOROUGH OF ENFIELD.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF ENGINEERING ASSISTANT.

(Population approx. 109,300. Area 12,401 Acres.)

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT at a salary in accordance with Grade A.P.T. II of the National Scheme of Conditions of Service (£765-£880 per annum, with the addition of London Weighting of £10-£20 per annum, according to age). Commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Applicants should have completed their professional training under the scheme for the training of Municipal or Civil Engineers. Opportunity will be afforded to gain experience in all phases of Municipal Engineering.

Saturday mornings are normally free of duty. Application Forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Wymondley Gardens, Enfield, Middx., must be delivered to the undersigned not later than MONDAY, 29th February, 1960.

CYRIL E. C. PLATTEN,

Town Clerk.

Public Offices,  
Enfield, Middx.

## APPOINTMENTS VACANT

## SOUTHERN RHODESIA GOVERNMENT.

## VACANCIES—MATERIALS OFFICERS: DIVISION OF ROADS AND ROAD TRAFFIC.

VACANCIES exist for MATERIALS OFFICERS in the Division of Roads and Road Traffic of the Southern Rhodesia Government. Such officers will normally be in charge of field control laboratories on road construction and when in the field will receive a field allowance of 12s. 6d. per day. Duties normally comprise the surveying, testing, and control of constructional materials, but also embrace associated matters such as traffic surveying and the recording of technical data.

Salary Scale: £410 x £31—£441 x £42—£609 x £63—£672 x £105—£682 x £63—£945 x £52 10s.—£1,207 10s. and after two years to £1,280 x £52 10s.—£1,437 per annum.

The commencing salary will be based upon educational qualifications and approved previous experience, but will not exceed £1,050 per annum. Previous experience in a technical capacity in engineering, building or survey, or in a laboratory or drawing office, may be acceptable in assessment of salary.

Applications and further information from SECRETARY (R), Rhodesia House, 429 Strand, London, W.C.2. Closing date: 29th FEBRUARY, 1960.

## GLOUCESTERSHIRE COUNTY COUNCIL.

## COUNTY SURVEYOR'S DEPARTMENT.

## ASSISTANT ENGINEERS, QUALIFYING CLASS.

APPLICATIONS are invited for the ABOVE APPOINTMENTS, involving work on improvement schemes on trunk and county roads, planning liaison and in soils laboratory. Through grading (subject to satisfactory service) of A.P.T. I, II and Special. Commencing salary in accordance with qualifications and experience. Car allowance up to 10-h.p. Applicants should hold a current driving licence.

Applications are not required from candidates who have applied for similar appointments in response to 12 series advertisements.

Application forms obtainable from, and to be returned to, the County Surveyor, Quay Street, Gloucester, not later than the 25th FEBRUARY, 1960.

GUY H. DAVIS,

Clerk of the County Council.

Shire Hall,  
Gloucester.

26th January, 1960.

## BOROUGH OF WILLESDEN.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING PERMANENT APPOINTMENTS:

- (a) Senior Engineering Assistant within Scale "A" (£1,240 x £50—£1,390 p.a.).  
(b) Engineering Assistant within A.P.T. Special Grade (£785 x £40—£1,070 p.a.).  
(c) Engineering Assistant within Grade A.P.T. II (£765-£880 p.a.).  
(d) Engineering Assistant within Grade A.P.T. I (£610-£765 p.a.).

For all posts except (a) above, London Weighting maximum £30 p.a. is payable in addition to the salaries shown.

For post (a) above, preference will be given to candidates having above average experience in structural engineering or sewerage or highway works. The Council are unable to assist with housing accommodation.

Forms of Application and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than MONDAY, 29th February, 1960.

When writing for Application Forms, candidates must state for which appointment they wish to apply.

(Signed) R. S. FORSTER,  
Town Clerk.

1st February, 1960.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of TECHNICAL ASSISTANT. Salary within A.P.T. II (£765-£880 p.a.) plus London Weighting, maximum £30 p.a.

Applicants should have had wide experience in the supervision and administration of municipal civil engineering works undertaken by Direct Labour and Contract.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 29th February, 1960.

(Signed) R. S. FORSTER,  
Town Clerk.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT OF CLERK OF WORKS. Salary within A.P.T. III (£880-£1,065 p.a.) plus London Weighting maximum £30 per annum.

Applicants should have wide experience in the supervision during construction of civil engineering and building works of considerable magnitude.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on MONDAY, 29th February, 1960.

(Signed) R. S. FORSTER,  
Town Clerk.

## BOROUGH OF WILLESDEN.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the TWO PERMANENT APPOINTMENTS in the Building Surveyor's Section of the following:

General Assistants within Grade A.P.T. II (£765-£880 p.a.) plus London Weighting maximum £30 per annum.

Applicants should have had experience of the general work of a Building Surveyor's Office and the administration of building by-laws and the Town Planning Acts. For one post, experience of dealing with the control of advertisement will be an advantage. The Council cannot assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by 9 a.m., MONDAY, 29th February, 1960.

## APPOINTMENTS VACANT

### STAFFORDSHIRE COUNTY COUNCIL.

#### COUNTY ROADS AND BRIDGES DEPARTMENT.

#### HIGHWAYS TESTING LABORATORY.

APPLICATIONS are invited for the APPOINTMENT of SENIOR LABORATORY ASSISTANT, on the Special Grade up to a maximum of £1,070 per annum, for work in the County Council's Highways Laboratory at Gnosall, near Stafford. A modern house with garage is available.

The laboratory is equipped with the most modern apparatus for testing bituminous and concrete products, and for investigating problems of soil mechanics. Applicants should be suitably qualified and should have had laboratory experience on testing and experimental work for all classes of materials used in the construction of roads and bridges. Preference will be given to candidates with experience in soil mechanics.

The appointment is subject to the provisions of the Local Government Superannuation Acts, 1937/53.

Canvassing is strictly prohibited and candidates must state in their application whether they are related to any member or senior official of the County Council. The Council will consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of the successful candidate's furniture and household goods.

Applications must be made on the appropriate form, which can be obtained from the County Surveyor, County Buildings, Stafford, and must reach him by 10 a.m. on MONDAY, the 29th February, 1960.

T. H. EVANS,  
Clerk of the County Council.

January, 1960.

## BOROUGH OF RUGBY.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Surveyor's Department:

(a) Engineering Assistant: Salary within A.P.T. Grade II (£765-£880 p.a.).

(b) Clerk of Works: Candidates must be properly qualified, with experience in the supervision of civil engineering works under contracts of a capital nature. Salary within A.P.T. Grade I (£610-£765 p.a.).

Each appointment will be subject to satisfactory medical examination by a Local Government Superannuation Act, and determination by one month's notice. Housing accommodation will be available if required.

Further particulars and Form of Application may be obtained from the Borough Surveyor, Burford House, Rugby, to whom completed applications must be sent not later than 20th FEBRUARY, 1960.

T. L. DUFFY,  
Town Clerk.

## BURGH OF GRANGEMOUTH.

#### RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER in the Burgh Engineer's Department at a salary on the Professional Assistants Scale of £795, rising by annual increments of £35 to £1,075, with placing according to age and experience.

Applicants should be Corporate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers and will be required to supervise the construction of a major drainage scheme.

The appointment will be a temporary one for an initial contract period of 2 years, but with the possibility, subject to satisfactory service, of extension thereof. If required, temporary housing accommodation can be provided for the successful applicant, covering the period of service.

Applications, stating age, education, experience and qualifications, together with copies of two recent testimonials, should be sent to the undersigned not later than SATURDAY, 20th February, 1960.

W. BRYCE JOHNSTON,  
Town Clerk.

Municipal Chambers,  
Grangemouth,  
2nd February, 1960.

## CITY OF BRADFORD.

#### Factories Act, 1937—SECTION 34.

INSPECTOR (POST 60), GRADE A.P.T. I (£610-£765).

APPLICATIONS are invited from suitably qualified persons for the ABOVE SUPERANNUABLE POST. Duties involve inspections for means of escape in case of fire, and the preparation of reports and plans. Candidates should have a knowledge of building construction and be accustomed to dealing with building plans.

Housing accommodation cannot be provided. Application Forms, obtainable from the City Engineer and Surveyor, Town Hall, Bradford, 1, with three testimonials, must be received by the undersigned by 26th FEBRUARY, 1960.

HENRY PATTEN,  
Town Clerk.

Town Hall,  
Bradford, 1.

## HITCHIN URBAN DISTRICT COUNCIL.

#### SURVEYOR'S DEPARTMENT.

Temporary ENGINEERING ASSISTANT REQUIRED for road improvement schemes for one year, with possible extension. Salary £1,000/£1,200, according to qualifications and experience.

Applications, stating age, qualifications and experience, and names of two referees, to the CLERK, Council Offices, Brand Street, Hitchin, Herts., by 29th FEBRUARY.

## FYLDE WATER BOARD.

SENIOR ASSISTANT ENGINEER (Structural) REQUIRED. Salary Scale A.P.T. V (£1,220-£1,375). Commencing salary £1,220 per annum.

Applicants must be Associate Members of either the Institution of Structural Engineers or the Institution of Civil Engineers, and must have had extensive experience of reinforced and prestressed concrete design and construction. Some knowledge of modern methods of design of steel structures will be an advantage.

The Board has an extensive capital works programme in hand, amounting to over £2.1m., in the next five years. Successful applicants will, therefore, have ample opportunities for an interesting career. The Board's area is approx. 425 square miles and a population of 450,000.

Further details of work in hand may be obtained from the undersigned, also Application Forms, which should be returned before 2nd MARCH, 1960.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and Regulations thereunder, and successful applicants will be required to pass a medical examination.

FRANK LAW, B.Sc.(Tech.), M.I.C.E.,  
Engineer to the Board.

Sefton Street,  
Blackpool.

## APPOINTMENTS VACANT

### BOROUGH OF CROSBY.

#### RESIDENT ENGINEER.

APPLICATIONS are invited for APPOINTMENT as RESIDENT ENGINEER for the construction of new Swimming Baths, at a salary within the A.P.T. Scale £1,000 to £1,250 per annum, according to experience and qualifications.

The appointment will, subject to satisfactory service, be for the duration of the Contract period, estimated at 18 months, and it is expected that the work will commence during April, 1960.

Applicants should have had considerable experience in reinforced concrete and water-retaining structures, together with a sound knowledge of general building work and architectural finishings.

Applications, on forms obtainable from the Borough Engineer and Surveyor at the address below, must be returned to him not later than WEDNESDAY, 24th February, 1960.

Canvassing, directly or indirectly, will disqualify. HAROLD O. ROBERTS,  
Town Clerk.

Town Hall,  
Waterloo,  
Liverpool, 22.

26th January, 1960.

## BOROUGH OF ENFIELD.

#### BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

#### APPOINTMENT OF DEPUTY CLEANSING SUPERINTENDENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of DEPUTY CLEANSING SUPERINTENDENT at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service (£610-£765 per annum plus a London Weighting allowance of £10-£30 per annum, according to age). The commencing salary will be in accordance with qualifications and experience.

Preference will be given to applicants who hold the Testamur of the Institute of Public Cleansing and have had considerable experience in supervising collection and disposal of refuse and the maintenance of transport.

Application Forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., to be returned to the undersigned by the 29th FEBRUARY, 1960.

CYRIL E. C. R. PLATTEN,  
Town Clerk.

Public Offices,  
Enfield, Middx.

## BOROUGH OF ENFIELD.

#### BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

#### APPOINTMENT OF TRENCH INSPECTOR.

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT at a salary in accordance with the Misc. Grade of the National Scheme of Conditions of Service (£525-£590 per annum plus a London Weighting allowance of £10-£30 per annum, according to age). The commencing salary will be fixed at point within the Scale commensurate with experience.

The duties will include inspection and supervision of trench openings and the maintenance of utility undertakers, together with inspection of road surfaces, etc.

Preference will be given to applicants who are conversant with the requirements of the Public Utilities Street Works Act and have experience in the keeping of records, and liaison with statutory undertakers, is essential.

Application Forms, returnable by MONDAY, 29th February, 1960, to be obtained from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,  
Town Clerk.

Public Offices,  
Enfield, Middx.

## URBAN DISTRICT OF FELTHAM.

#### APPOINTMENT OF SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for this APPOINTMENT on the permanent staff of the Engineer and Surveyor's Department. Salary within Grade A.P.T. III (£880-£1,065) plus London Weighting. Applicants must be suitably qualified.

Forms of Application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 26th FEBRUARY, 1960.

Canvassing, directly or indirectly, will disqualify, and applicants must disclose, in writing, whether to their knowledge they are related to any member of, or the holder of any senior office under, the Council.

M. W. COUPE,  
Clerk of the Council.

Council Offices,  
Feltham, Middx.

## WELWYN GARDEN CITY AND

#### HATFIELD DEVELOPMENT CORPORATIONS.

#### APPOINTMENT OF STOREKEEPER.

APPLICATIONS are invited for the APPOINTMENT of STOREKEEPER to the Corporation's Works Department.

The successful applicant will be held responsible for the issue, receipt and demands of all stores and materials required. Only experienced applicants will be considered, and if required, housing accommodation will be made available.

The salary will be within the Grade Clerical II of the Corporation's Scale of Salaries—£670-£765.

Forms of Application may be obtained from the GENERAL MANAGER, Welwyn Garden City and Hatfield Development Corporations, 4 Wigmore Street, Welwyn Garden City, Herts., and should be completed and returned to arrive not later than FRIDAY, 19th February, 1960.

## ASSISTANT ESTIMATING SURVEYOR

REQUIRED by national firm of contractors at their Middlesex office. Must be experienced in the preparation of bills of quantities and be able to prepare material schedules for ordering. Write, giving full particulars of age, experience and salary required, to Box V.1194. "The Contract Journal."

## CIVIL ENGINEER REQUIRED by

RICHARD COSTAIN, LTD., for work in Nigeria. Candidates, preferably aged 27-35, should be University Graduates, or equivalent, and must have at least five years' practical experience with contractors; this should include piling in water estuaries from barges, erection of steelwork and welding. Terms of 18 months each followed by three months' paid leave in U.K. Salary £1,800 per annum, with messing and accommodation (bachelor) provided free. KIT allowance £80. Please address Applications to Overseas Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

## APPOINTMENTS VACANT

### COUNTY BOROUGH OF BIRKENHEAD.

#### ROADS DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Engineer and Surveyor's Department:

(1) Engineering Assistant, Grade A.P.T. II (£765/£880 p.a.).

(2) Road Foreman, Grade M.V. (£650/£715 p.a.).

Applicants for (1) should be qualified in accordance with the recommendations of the National Joint Council, and experience on constructional sites will be an advantage.

Applicants for (2) must have had experience in the construction and maintenance of roads and in the supervision and organisation of men and transport.

Application Forms and further details from the BOROUGH ENGINEER AND SURVEYOR, 3 Conway Street, Birkenhead. Closing date for applications: 19th FEBRUARY, 1960.

Relationship to members or senior officers of the Council must be disclosed.

## TARMAC CIVIL ENGINEERING, LTD.

have vacancies for experienced ESTIMATORS. These are permanent positions with good prospects for advancement.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications, salary required, and should be addressed to Managing Director, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

## F. J. C. LILLEY (CONTRACTORS), LTD.

have VACANCIES for SUB-AGENT/ENGINEERS and SECTION ENGINEERS on tunnel contracts in London and the Midlands. Applicants must have a sound knowledge of soft-ground tunnel work and be capable of supervising construction and setting-out. Civil engineers who have undergone a thorough training in the industry should apply to the Assistant General Manager, Great Cambridge Road, by Church Street, London, N.9.

**SITE CASHIER:** Applications invited from experienced men who have been site cashiers for at least the past five years and bonded and worked for a reputable national contractor for large jobs in the Midlands area. Top salary and expenses offered to the right man.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

## EAGRE

AGENTS and SITE ENGINEERS REQUIRED for various contracts throughout the country. Experience in earthworks, roads, drainage and heavy foundations essential. Knowledge of tracklaying would be advantageous.—Apply, in writing, giving details of age, experience, together with present salary, to:

The Contracts Manager,  
EAGRE CONSTRUCTION CO., LTD.,  
East Common Lane, Scunthorpe, Lincs.

## DESIGN ENGINEER WANTED for

Victoria head office of civil engineering contractor. Should be a qualified civil engineer with site and design experience, and interested in mechanical engineering.—Write to Box V.1087, "The Contract Journal," quoting Ref. ABC 8.

## SUB-AGENTS and ENGINEERS RE-

QUIRED for general civil engineering work in various parts of the country.—Write, stating age, and giving full details of experience and salary required, to Box V.1092. "The Contract Journal."

## CIVIL ENGINEERING ASSISTANTS RE-

QUIRED for site work on contracts. The work is varied and interesting, with opportunities for promotion and study of new methods. Applicants should be between the ages of 26 and 32, and hold a degree in civil engineering, or equivalent. They should have had a minimum of three years with a contractor on site work, which must have included setting-out and progress measurement. Experience in design of formwork and other temporary works, control of concrete quality would be an advantage.—Apply in writing, giving brief details of qualifications and experience, also stating age and salary required, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

## JUNIOR CIVIL ENGINEERS REQUIRED to

work on sites, with excellent opportunities for training. Applicants should be graduates, or equivalent, and should be between the ages of 20 and 26.—Apply in writing, giving brief details of qualifications and experience (including vacation course work), also stating age, to the Chief Engineer, THE DEMOLITION AND CONSTRUCTION CO., LTD., 3 St. James's Square, S.W.1.

## SURVEYOR: Applications invited from

men, age range 26-45, who have had recent past experience in successful handling of final accounts for large building contracts work, including monthly certificates and variations, etc. Working from Wolverhampton as a base and visiting several jobs. Applications should give full details of recent record of employment with a similar company, and responsibilities, addressed to Personnel Manager, WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

## CIVIL ENGINEERING SUPERVISOR

REQUIRED for the construction of estate roads and sewers in the Leicester/Derby area. Able to level set out and control labour with proved success. Pension scheme in operation after qualifying period.—Write, giving full particulars and some indication of salary required, to:

H. C. JAMES, LTD.,  
183 High Town Road, Luton.

## GENERAL FOREMEN REQUIRED by

national contractors for speculative housing in the Reading and Southampton areas. Permanent, well-paid pensionable positions for experienced men. Full particulars to Box V.1195. "The Contract Journal."

## JUNIOR ESTIMATOR REQUIRED for

asphalt department in London office.—Apply, stating age, experience and salary required, to the Secretary, AMALGAMATED ASPHALT COMPANIES, LTD., Asphalt House, Palace Street, S.W.1.

## ROBERT M. DOUGLAS (CONTRACTORS),

LTD. require SECTION ENGINEERS, SETTING-OUT ENGINEERS and SOILS ENGINEERS for work, including motorways and general civil engineering, in any part of the country.—Apply in writing, stating age, experience, and salary required, to 395 George Road, Birmingham, 25.



## APPOINTMENTS VACANT

**GENERAL FOREMAN (Building):** Applications invited from Senior General Foremen who are at the top of their grade and have handled large building contracts in recent years, using initiative in site administration and practical application of all modern techniques. For work in the Midlands area. Carpenter and Joiner background preferred. A good salary and expenses and other staff terms will be available to the successful applicant. — **WILSON LOVATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

**BOWMAKER (PLANT), LTD.**, the Caterpillar Dealers, REQUIRE a SALES REPRESENTATIVE for North Staffordshire and Shropshire. The applicant should be between 25 and 35 years of age, he should have had experience in the earthmoving industry, and have the ability to assimilate knowledge of the full range of Caterpillar earthmoving equipment and its application, for which training will be given. Salary and commission will be paid with a car provided. — Applications will be treated in confidence, and should be sent to the Personnel Manager at Noose Lane, Willenhall.

**QUANTITY SURVEYOR REQUIRED** for building construction involving all trades. Huddersfield office. — Write Box V.1081, "The Contract Journal."

**LARGE** London firm of foundation contractors REQUIRE DEPUTY to QUANTITY SURVEYOR. Must be capable of measuring reinforced concrete work from drawings on site for interim and final accounts; also control costings of contracts. Good salary and prospects. — Write, stating age and experience, to Box V.1104, "The Contract Journal."

## BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION

Applications are invited for APPOINTMENTS to the development staff and to the bridge department. Candidates should be young men with some experience in the design and detailing of steel-frame buildings, with knowledge of BS.449, or with experience in the design of steel bridges, with knowledge of BS.153. 5-day week and luncheon vouchers. Admission to non-contributory pension scheme after qualifying period. Apply, in confidence, giving fullest details, with salary required, to:

The Technical Adviser,  
**BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION**  
Artillery House, Artillery Row, London, S.W.1.

**CONTRACTS MANAGER / SUPERVISOR** REQUIRED by well-known old-established company of building and civil engineering contractors in the South-West. Applicants, possessing previous experience, should be capable of organising and controlling a number of contracts concurrently and should be well acquainted with modern building methods and plant, preplanning and cost control. Preferred age 30 to 45. The salary will be commensurate with experience. The position is permanent and pensionable. Car provided. Reply in confidence, giving age and details of previous experience, to Box V.1080, "The Contract Journal."

**W. & C. FRENCH, LTD.**, Civil Engineering and Building Contractors, REQUIRE an ESTIMATOR 25-35, with experience of preparing tenders on bills of quantities for various types of work. Based on depot offices at Colchester, Essex. — Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex.

**T.H. CONTRACTORS, LTD.**, REQUIRE ENGINEERS, age 20-25, for roadworks and main drainage contracts in London area and Southern Counties. Good prospects for keen young men who are competent and experienced in setting-out, etc. Must possess clean driving licence. — Apply, stating details of training and experience, age, and salary required, to T.H. CONTRACTORS, LTD., 300 Chiswick High Road, London, W.4.

**SITE ENGINEER REQUIRED** for civil engineering contract in Essex. Experience in setting-out, measuring and final accounts. Salary according to experience and qualifications. — Write Box V.1128, "The Contract Journal."

## MOBILE CRANE SALES ENGINEERS

REQUIRED by large organisation who are now going to increase representation in all areas of the United Kingdom. High basic salary plus commission, expenses and good standard of company car. The standard of these appointments calls for first-class men. All of our present sales staff are advised of this advertisement. It must be appreciated by all applicants that only applications with full details of career, education and personal particulars will be considered for these important positions.

WRITE BOX V.1121, "THE CONTRACT JOURNAL."

**CIVIL ENGINEERING ESTIMATORS REQUIRED** by SHEPARD, HILL AND CO., LTD., to work from London office. Preference will be given to Engineers having practical knowledge, age between 30-40 years. Excellent prospects for experienced men able to work on own initiative. Top salary and allowances will be paid to the successful applicants. — Write, giving full details, to Managing Director, SHEPARD, HILL AND CO., LTD., 25/27 Cental Chambers, W.5.

**ASPHALT AND TARMACADAM WORKS SUPERVISOR REQUIRED** in S.W. London area. Good salary for right man. — Write, with references and experience, to Box V.1158, "The Contract Journal."

**AGENT REQUIRED** for sewage works contract in Midlands. Must be experienced in reinforced concrete work. Permanent position with prospects for suitable applicants. Attractive salary and bonus offered. — **TARSLA, LTD.**, Wolverhampton.

**CONSTRUCTION and Supervisory Staff:** A few appointments will shortly be made which offer outstanding opportunities of advancement for men well experienced in building, structural or civil engineering work. The vacancies are suitable only for SUPERVISORS, AGENTS, GENERAL FOREMEN or ENGINEERS with proven ability in the supervision of work from head office, or on site, but offer appropriate responsibility and rewards. If you are interested, you should be prepared to accept the strictest confidence, giving exact details of qualifications, and recent positions, together with exact responsibilities. Please also indicate those areas in which you would be prepared to work, and the type of position you prefer, the salary expected, to Mr. E. Batt, 1 Queen Anne's Gate, London, S.W.1.

## APPOINTMENTS VACANT

**PLANT FITTERS AND MATES REQUIRED** for overhauls of heavy civil engineering plant at contractors' plant depot in Watford. Experience on Ruston and K.C.K. excavators essential. Permanent job. Good conditions. — Apply: **MARPLES, RIDGWAY AND PARTNERS, LTD.**, Metropolitan Station Approach Road, Watford, Herts.

**GENERAL FOREMAN REQUIRED** for civil engineering contract in Essex. — Please write, stating experience, with copy references, and salary required, to Box V.1150, "The Contract Journal."

**WORKING FOREMAN REQUIRED** for medium-size civil engineering contracts in Southern Home Counties. Applicants must have initiative and drive, with good all-round experience. Salary £700-£800 p.a., plus subsistence. — Write, with full details, to Box V.1164, "The Contract Journal."

**JUNIOR ENGINEER**, with site experience and capable draughtsman, REQUIRED by company specialising in formwork and temporary structures. Salary by arrangement. — Write brief details to: **GUYREX EQUIPMENT, LTD.**, 25 Craven Street, London, W.C.2.

**YOUNG MAN REQUIRED** as ASSISTANT ESTIMATOR. Experience of builders' quantities and taking-off drawings essential. — Apply: **ACALOR (1948), LTD.**, Kelvin Way, Crawley, Sussex.

## MICHIGAN (GREAT BRITAIN), LTD.

REQUIRE a first-class experienced SALES REPRESENTATIVE who has handled tractor shovels and rubber-tyred earthmoving equipment, to complete their sales team in the Central Midlands area. Good salary. Pension scheme. — Write, with full details, to:

The Personnel Officer (Ref. Mich-Sales),  
P.O. BOX NO. 3,  
Yorktown Works, Camberley, Surrey.

**SURFACE MAINTENANCE SERVICES, LTD.**, REQUIRE a QUANTITY SURVEYOR to work in the Bournemouth office. Applications invited from men aged 25-30 with experience in civil engineering works. The job will entail the responsibility for site measurement and the preparation of interim and final accounts for medium-size road and sewer contracts. — Applications, in writing, giving full details of past experience, salary required, and two recent references, to Personnel Manager, 124 Old Christchurch Road, Bournemouth.

**MANAGER REQUIRED** by painting contractors for branch office at Exeter. Must be efficient administrator and have detailed knowledge surveying for all classes of contract work. Accommodation available. Ultimate appointment as director for suitable applicant. — Write, stating previous experience, salary required, and desired appointment, to Box V.1023, "The Contract Journal."

**SUB-AGENT/ENGINEER REQUIRED** to organise and supervise production of heavy precast concrete bridge units at depot in North London. Specialist experience in this sphere of operations required, together with general contracting experience. — Write to Box V.1094, "The Contract Journal," quoting Ref. DEF.2.

**SENIOR QUANTITY SURVEYOR REQUIRED** for head office appointment. Applicants must have extensive experience in civil engineering construction work. Salary commensurate with experience. Bonus and superannuation scheme in operation. Applications should be addressed to Personnel Officer, **TARMAC CIVIL ENGINEERING, LTD.**, Ettingshall, Wolverhampton.

**SITE SECTION ENGINEER REQUIRED** for large dry dock construction on North-East Coast. Age 25-30. Preferably experience of marine works and civil engineering qualifications. Excellent prospects both at home and abroad. — Write to Box V.1095, "The Contract Journal," quoting Ref. KLM/7.

## CIVIL ENGINEERING STAFF

The following are REQUIRED for a variety of civil engineering contracts: —

**SENIOR AGENTS**—Reference PE8  
Having a minimum of 10 years' experience with major contractors. Essential applicants have had control of large competitive projects involving piling, excavation, mass and reinforced concrete.

**AGENTS**—Reference PE9  
Must have had up to five years' experience similar to the above on contracts of approx. £2m. in value.

**ENGINEERS**—Reference PE10  
Must have had a minimum of two years' site experience on heavy civil engineering contracts, and must have passed Parts A and B of Institution of Civil Engineers or have equivalent qualifications.

**HEAD OFFICE STAFF:**  
**CIVIL ENGINEER**—Reference PE11  
Civil Engineer required to control staff who are engaged on construction methods planning at the tender stage of contracts. Must have had considerable experience of site work, plant and labour utilisation and outputs in the widest field of civil engineering. This is a new senior head office appointment, created by expansion, involving brief visits to sites. All these posts are permanent and pensionable. Applicants should give full details of their age, experience, qualifications, present position and salary, and quote the reference number of the particular vacancy in which they are interested. — Apply to:

**SIMON-CARVES, LTD.**,  
Contract Labour Department,  
Cheadle Heath, Stockport, Cheshire.

**QUANTITY SURVEYOR/ESTIMATOR** to deal with inquiries, interim certificates and final accounts, REQUIRED for building and civil engineering contractors. Pension and life assurance scheme. Applicants required to be car driver and aged under 40. — Apply by letter, stating experience and salary required, to T. HOLDWAY AND SONS, LTD., Westbury, Wilts.

**EXPERIENCED ASSISTANTS REQUIRED** for surveyors department of expanding building and civil engineering contractors. Pension and life assurance scheme. — Apply by letter, stating age, experience and salary, to T. HOLDWAY AND SONS, LTD., Westbury, Wilts.

**JUNIOR SITE ENGINEER REQUIRED** in Birmingham area for setting-out and measurements for road and sewer contract. Interviews will take place in Birmingham. — Write, with full particulars of experience and salary required, to Box V.1129, "The Contract Journal."

## APPOINTMENTS VACANT

**YOUNG Graduate CIVIL ENGINEER REQUIRED** by old-established firm dredging contractors. Previous experience not essential. Employment on permanent basis, with full staff benefits, for right man. — Write Box V.1054, "The Contract Journal."

**SENIOR ESTIMATOR REQUIRED** for contractors' branch office. Considerable previous experience in civil engineering essential. Permanent progressive post to satisfactory applicant, and participation in superannuation scheme. — Submit complete details of previous employers with application to Box V.1088, "The Contract Journal."

**HUSSEY, EGAN AND PICKMERE, LTD.**, have vacancies for SUB-AGENTS and SETTING-OUT ENGINEERS on civil engineering contracts in England and Wales. Previous experience essential. Apply to Head Office, 24 Calthorpe Road, Edgbaston, Birmingham, 15, giving details of previous experience and stating age and salary required.

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, Quantity Surveying Department, — **QUANTITY SURVEYORS REQUIRED** for work in Gt. Britain with at least three years' experience of final accounts for civil engineering and building works of £100,000 and above. Excellent prospects, commensurate with ability. Remuneration by arrangement. Pension scheme. — Write, giving details of age, education, experience and salary, to 395 George Road, Erdington, Birmingham, 23.

## CAN YOU SELL PLANT?

**HANGERS PLANT DIVISION** need a top-class SALESMAN to sell contractors' plant. Successful applicant must have the following qualifications:

- (1) Have proven sales record (preferably in contractors' plant).
  - (2) Be between 25 and 35 years old.
  - (3) Currently be earning at least £1,000 per annum, and not satisfied with present income.
- Remuneration will be by salary and commission on profit, which will enable a good man to earn at least £1,250 per annum, and an outstanding man much more. This vacancy is for a man that can really sell and enjoys doing so. Hangers, in addition to being sole distributors for J.C.B. earthmoving equipment for Wccs., Warwicks, and South Staffs., have agencies for Liner dumpers and concrete machinery, Allam vibrators and portable generators, County Crawler tractors, Onions scrapers. Our advertising and sales promotional activities give every support to our sales staff. — Write, giving background of experience and all pertinent personal information, in confidence, to:

Plant Manager,  
**HANGERS PLANT DIVISION**,  
2 Alcester Road, Bromsgrove.

**WANTED, FOREMEN CARPENTERS** for major civil engineering contracts in the south-west area of Devon and Cornwall. Only experienced men need apply. Top wages, subsistence and bonus payable to successful applicants. — Write Box V.1141, "The Contract Journal."

**MANAGER REQUIRED** by company engaged in sportsfield and landscaping contracts. Experienced administrator and organiser. Permanent position for keen man. — Write Box V.1136, "The Contract Journal."

**SIR ALFRED MCPALPINE AND SON, LTD.**, urgently REQUIRE experienced CIVIL ENGINEERS for contracts in South Lancashire and Cheshire. Good prospects and staff pension scheme. — Apply in writing, stating age, experience, qualifications, and salary required, to Sir Alfred McAlpine and Son, Ltd., Hooton, Wirral, Cheshire.

**ROBERT M. DOUGLAS (CONTRACTORS), LTD.**, REQUIRE AGENTS, SUB-AGENTS, GENERAL FOREMEN, FOREMEN and GANGERS for work in general civil engineering and building works, in any part of the country. — Apply in writing, stating age, experience, qualifications, and salary required, to 395 George Road, Birmingham, 23.

**SALES REPRESENTATIVE REQUIRED** for East of Scotland contractors' plant manufacturers. Sales experience with light dumpers, concrete mixers, etc. and an engineering background desirable. Must be prepared to travel in U.K. periodically. — Apply with full particulars, including age and salary required, in confidence, to the General Manager, Box V.1163, "The Contract Journal."

## SENIOR SURVEYOR

For the head office of C. J. SIMS, LTD., building and civil engineering contracting contractors. Age 28-35. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts, including the building-up of rates. — Apply, in confidence, giving age, experience and details of training, experience and salary required, to:

C. J. SIMS, LTD.,  
2 Victoria Street, S.W.1.

**WANTED, GENERAL FOREMAN** for major civil engineering contracts in the south-west area of Devon and Cornwall. Only experienced foremen need apply. Top wages, subsistence and bonus payable to successful applicants. — Write Box V.1135, "The Contract Journal."

**CIVIL ENGINEERING ESTIMATORS:** Large firm of civil engineering contractors REQUIRE experienced Estimators for preparing tenders for motorways and similar projects. Permanent post with good prospects and staff pension scheme. — Write, stating age, qualifications, experience, and salary required, to Box V.1133, "The Contract Journal."

**QUALIFIED COST ACCOUNTANT REQUIRED** by large firm of civil engineering contractors. Experience in costing this type of work is absolutely essential. Permanent post, with good prospects and staff pension scheme. — Write, stating age, qualifications, experience, and salary required, to Box V.1134, "The Contract Journal."

**CONTRACT SUPERVISORS REQUIRED** by painting contractors in Midlands and London areas. Practical experience of all types of painting work essential. — Write Box V.1114, "The Contract Journal."

**A FIRM** of public works contractors specialising in Post Office ductwork REQUIRE a first-class TRAINEE-AGENT possessing drive, initiative and ambition. Applicant must be young, energetic and willing to lodge in any part of the country as required. — State age, references, etc., in first instance to Box V.1127, "The Contract Journal."



## APPOINTMENTS VACANT

**REQUIRED, ENGINEERS** for planning and design offices. Applicants must have had experience in planning of civil engineering or building contracts, or design of reinforced concrete and temporary structures. Salary commensurate with experience, bonus and pension scheme in operation. Applications should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

**PRODUCTION ENGINEER:** Civil or Mining Engineer with extensive experience in the control of large-scale mechanical earthmoving operations. **REQUIRED as ASSISTANT PRODUCTION ENGINEER** by mining company in Sierra Leone. Commencing salary £2,000 per annum plus 5 per cent. bonus plus for married men, passage or separation allowance of £10 per month and £5 per month for each child. 15-month tours followed by liberal leave on full salary in U.K. Return passage paid. Free furnished quarters and medical attention. Contributory pension scheme with retirement at age 55. Life assurance and dependants' income schemes.—Write, giving full details experience, stating age, married or single, to SIERRA LEONE DEVELOPMENT CO., LTD., Dept. P.E.T., City Gate House, Finsbury Square, E.C.2.

## CIVIL ENGINEERING

**SENIOR PROJECT MANAGER** for large motorway scheme **REQUIRED** by national contractors. Applicants must be engineers well experienced in the control of projects involving expenditure of several millions per annum and with bridge and road experience. The appointment offers excellent conditions and prospects.—All letters will be kept strictly confidential to the director in charge of the project, and should be addressed to:

"D," BOX CJ895, L.F.E., Romano House, 399/401 Strand, London, W.C.2.

**EXPERIENCED SURVEYOR REQUIRED** on interim valuation and final accounts for civil engineering contracts, to operate from head office. Permanent position with pens-on-rights.—Write in confidence, giving age, details of experience, previous employers, and salary required, to General Manager, TILBURY CONSTRUCTION CO., LTD., Ruscombe Works, Twyford, Berks.

**AGENT and SITE ENGINEER REQUIRED** for road contracts, by expanding firm of contractors. Top salary and prospects for men with ambitions.—Apply GALLIFORD AND SONS, LTD., Wolvey, Hinckley, Leicestershire.

**PAVIERS and KERBLAYERS REQUIRED.**—GALLIFORD AND SONS, LTD., Wolvey, Hinckley, Leicestershire.

**JUNIOR SURVEYOR REQUIRED** by civil engineering and building contractors in Middlesex. Applicants must be capable of preparing site measurements for interim valuations and final accounts. Good prospects for a young man with initiative.—Write, giving full details of experience, age, and salary, required, to Box V.1196, "The Contract Journal."

**ENGINEERS, CIVIL and MECHANICAL (Temporary).** **REQUIRED** by iron ore mining company for tour of approx. 18 months' duty in British West Africa. Civil Engineer to supervise foundation and steelwork contracts, and Mechanical Engineer to supervise installation of plant and machinery, including electric, in an ore concentrating plant. Engineers with previous experience contract supervision essential. Salary £1,900 per annum plus bonus plus for married men marriage allowance at the rate of £10 per month and children's allowance at the rate of £5 per month for each child under 18. Dependents' income scheme and free life insurance. Return passage paid. Initial kit allowance. Free furnished accommodation and medical attention. Write, giving full details of experience, stating age, married or single, to SIERRA LEONE DEVELOPMENT CO., LTD., Dept. M.P.4, City Gate House, Finsbury Square, London, E.C.2.

## SIR LINDSAY PARKINSON AND CO., LTD.

**REQUIRE qualified CIVIL ENGINEERS** in London head office to participate in the planning of a wide variety of interesting civil engineering projects. Responsibilities will include investigation and detailed development of construction methods, design of temporary works and the preparation of programmes. Applicants must have not less than five years' planning office or site experience with contractors in major civil engineering works. These appointments are permanent, carrying attractive salaries, and are pensionable after a probationary period.—Write, with full particulars, to:

Civil Engineering Director,  
SIR LINDSAY PARKINSON AND CO., LTD.,  
6 Lambeth Road, London, S.E.1.

**NATIONALLY known plant hire company**, opening new offices and works in the Manchester area, **REQUIRE** the services of a fully experienced man to take charge of the hire department and work under area manager. Must be conversant with the full range of contractors' plant and machinery, hire rates, wages, records, etc. Preference would be given to men with local connections, but this would not preclude other applicants with the necessary experience. Profit-sharing and pension scheme in existence. Present employees of company have been informed of this vacancy.—Write, giving full details, salary details of experience, to Box V.1188, "The Contract Journal."

**CASHIER REQUIRED** by civil engineering contractors, for contract in Liverpool area. Experience essential.—Reply to Box V.1146, "The Contract Journal," quoting Ref. QRS/6.

**OFFICE MANAGER REQUIRED** for builders' office in Hammersmith. Experienced in industry and able to keep costs and accounts.—Reply to Box V.1147, "The Contract Journal," quoting Ref. QRS/7.

**W. & C. FRENCH, LTD.** Civil Engineering and Building Contractors. **REQUIRE** an **ESTIMATOR**, 25-35, with experience of preparing tenders on bills of quantities for various types of civil engineering work. Based on office at Buckhurst Hill, Essex.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex.

**BUILDING SURVEYORS REQUIRED** by a national building and civil engineering contractor. These positions are permanent, progressive and superannuated.—Write, giving full details, salary required, and areas preferred, to Box No. C1907, L.F.E., Romano House, 399/401 Strand, London, W.C.2.

## APPOINTMENTS VACANT

**CONTRACTS SUPERVISOR REQUIRED** for several civil engineering contracts in Central Scotland. Applications only from civil engineers with the necessary drive and with previous site experience in an administrative position as senior engineer or agent. Good salary and conditions; car provided. Apply, stating age and particulars of experience, and present position, to Box V.1175, "The Contract Journal."

**CONSTRUCTION work in Turkey:** Vacancies on single status exist for: (1) **CONSTRUCTION ENGINEER GENERAL FOREMAN**, capable of controlling, allocating and maintaining a large fleet of American makes of constructional equipment, including heavy mobile cranes, tractors, compressors, welding sets, concrete plant, etc. Only applicants having held similar responsible positions need apply. Job situated on Mediterranean coast. Sterling salary, accommodation and messing provided with local currency, living allowance and kit allowance. Duration of contract: 18 to 24 months. (2) **MALE CONFIDENTIAL SECRETARY STENOGRAPHER and PERSONAL ASSISTANT to Manager**, with knowledge of written and spoken Turkish and French languages. Conditions as above.—Written applications only, stating age and full details, to Oil Construction Manager, FOSTER WHEELER, LTD., 3 Lxworth Place, London, S.W.3.

## MYTON LTD.

(A member of the Taylor Woodrow Group) **REQUIRE** first-class **GENERAL FOREMAN** for contract in the London area. Must be particularly well experienced in the substructure and reinforced concrete frame applicable to multi-storey buildings. Attractive position with prospects, and pension scheme.—Replies, in confidence, with full particulars of experience, to:

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MYTON, LTD.,  
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Western Avenue, Ealing, London, W.5.

**CIVIL ENGINEER (Junior) REQUIRED** for temporary employment of approx. 15 months on pre-contract surveys for large project in Sierra Leone which includes road, railway, marine, plant and building construction. Successful applicants will be considered for transfer to resident engineer's staff when established. Salary £1,500 per annum plus 5 per cent. bonus, for married man separation allowance of £10 per month and £5 per month for each child. Return passage paid; free furnished quarters and medical attention. Life assurance and dependants' income schemes.—Write, giving full details experience, stating age, married or single, to SIERRA LEONE DEVELOPMENT CO., LTD., Dept. C.E.5, City Gate House, Finsbury Square, London, E.C.2.

**ENGINEER/AGENT REQUIRED** for civil engineering contracts, mainly in the London area. Applicants should be under 40 years of age and must have had wide experience on roads and sewers. The successful applicant will be responsible for the control and supervision of all contracts on which he is engaged and must possess a positive attitude. The position is permanent and progressive, and a contributory pension scheme is in operation.—Please reply, giving details of age, qualifications, past experience and salary requirements, to RUDDOCK & MEIGHAN, LTD., Burford House, Harrow View, Wealdstone, Middlesex.

**GENERAL FOREMAN (Civil Engineering):** Applications invited from Senior General Foremen, top of their grade in reinforced concrete work of all classes, including factory and industrial work, for the Midlands area. Experienced in using initiative in site administration with minimum of supervision and practical application of modern techniques. Send full details of training and experience to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

**FENCING EXPERT REQUIRED**, capable of working on own initiative and able to negotiate at top level. Only gentlemen conversant with all aspects of wood fencing, including costings, contracts and supervision of work, etc., are invited to apply. Good salary offered to right man. Present staff advised of vacancy.—Write Box V.9812, "The Contract Journal."

## BUILDING SURVEYOR/ESTIMATOR

**REQUIRED** by W. H. ALLEN, SONS AND CO., LTD. The successful applicant will be responsible to the works engineer for the introduction and, later, operation and financial administration of a progressive building maintenance scheme. Age should be between 25-35 years and qualifications should include, for preference, A.R.I.C.S. The company has an excellent pension and life assurance scheme in operation, and offers good working conditions and welfare amenities. Assistance will be given towards moving expenses. Applications, in writing, stating details of experience and present salary, and quoting Ref. 1602/C1, should be forwarded to:

The Personnel Manager,  
W. H. ALLEN, SONS AND CO., LTD.,  
Bedford.

**CIVIL ENGINEER—Barbados:** **RICHARD COSTAIN, LTD.** have a vacancy for a **CERTIFICATE ENGINEER** on their Bridgetown Harbour contract, Barbados. Applications are invited from men, preferably qualified Engineers, aged 30-35, with experience on major civil engineering contracts, including overall responsibility for measurement and the preparation of claims.—Please write to Senior Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

**CIVIL/STRUCTURAL DESIGN ENGINEER** **REQUIRED** to fill a post as Assistant Design Engineer with RICHARD COSTAIN LTD. The post is at head office and duties involve design and planning for the civil engineering divisions' contracts at home and abroad. Candidates, aged about 25-35, should preferably have had at least two years' design experience of temporary and/or permanent structures. Apply, stating age and details of qualifications and experience, to RICHARD COSTAIN LTD., 111 Westminster Bridge Road, London, S.E.1.

**NATIONAL** contractors engaged in large-scale civil engineering projects invite applications from well-experienced **CIVIL ENGINEERING AGENTS, SUB-AGENTS, CIVIL ENGINEERS, GENERAL FOREMEN** anxious to make progress in the calling. The appointments are on a permanent basis and are permanent and pensionable for the right men. Applicants should give brief details of their education, experience, proven ability, availability, and emolument desired.—Write Box V.1191, "The Contract Journal."

## APPOINTMENTS VACANT

**ESTABLISHED** company of building and civil engineering contractors **REQUIRE** an **ASSISTANT ENGINEER** for head office duties in connection with large-scale water and gas maintaining contracts throughout the country. Applicants should preferably be technically qualified, understand modern pipeline techniques, including welded steel mains, and have had a period in a responsible position on main-laying contracts. Duties will comprise all aspects of contract planning, liaison between site and head office, material ordering and control, and general duties as Assistant to the Contracts Manager. This appointment is required due to the expansion of the division. A permanent position is intended and a superannuation scheme is in operation. Applicants should write in the first instance for an application form, which will be treated in strict confidence.—Apply to Ref. G.W.A., THE NORTHWEST CONSTRUCTION CO., LTD., Ruthven Road, Litherland, Liverpool, 21.

**CIVIL ENGINEER ASSISTANT ESTIMATOR** **REQUIRED** by Glasgow firm of civil engineering contractors. Applicants must have had a minimum of three years' experience and be capable of working on own initiative. This is intended to be a permanent head office appointment, and a staff pension scheme is in operation. Applicants, stating age, previous experience, and qualifications, to STUART AND SONS (GLASGOW), LTD., 2275 London Road, Glasgow, E.2.

**CIVIL ENGINEERING CONTRACTS MANAGER and BUILDING MANAGER** **Appointments:** National contractors invite applications from men of experience and proven ability to take charge of important contracts. Operate from Midlands area. The appointments will carry attractive salaries and allowances. Car provided. Pension/life assurance scheme and bonus. Excellent prospects of advancement for men of drive and initiative.—Write full particulars to Box No. DL9359, c/o Whites, 72 Fleet Street, London, E.C.4.

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Capable men accustomed to handling contracts in the region of £500,000 are **REQUIRED** by leading building contractors for their Manchester bases. Superannuation scheme in operation.—Apply, with full details, to:

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Portland Street, Manchester, 1.

**CIVIL Engineering contractors** have vacancies in Scotland for **SENIOR CIVIL ENGINEERS** with good site experience and ability to take charge of works.—Applicants should prove ability to take qualifications and experience, and state salary expectations, to Box 379, Robertson and Scott, 42 Charlotte Square, Edinburgh.

**SENIOR CIVIL ENGINEERING PROJECT MANAGER:** Applications are invited from qualified civil engineers with proven ability in control of large-scale civil engineering works, including works in which excavation is a prime component. The position offers excellent conditions and prospects. Please write, in confidence, to Box V.1192, "The Contract Journal."

**HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.** **REQUIRE** the following staff: **SENIOR CIVIL ENGINEERING AGENT and GENERAL FOREMAN** for civil engineering contracts. Applicants, who must have had good experience in civil engineering construction, are invited to send full details to Mr. E. E. Batt, 1 Queen Anne's Gate, London, S.W.1.

## CIVIL ENGINEER

North-East England, preferably 30/35 years of age, not necessarily qualified but having a knowledge of civil engineering contractors in the Newcastle area. **REQUIRED** to take charge of an earthmoving contract department of a progressive and well-established company. Car provided. This is a permanent appointment with contributory pension scheme.—Full details of experience, education and salary required, to:

BOX 1088, PETER A. MENZIES, Advertising,  
2 Newton Place, Charing Cross, Glasgow, G.3.

**FOREMAN FITTER REQUIRED** by nationally known plant hire company opening new offices and works in the Manchester area. Must be conversant with the full range of medium-size contractors' plant and equipment. This is an excellent job for the right man; fixed salary would be paid, with participation in profit-sharing and pension scheme or, if preferred, hourly rate.—Please write, stating age and full details of previous experience, to Box V.1189, "The Contract Journal."

**ROBERT M. DOUGLAS (CONTRACTORS) LTD.** **REQUIRE DESIGNER-DETAILERS** immediately for work on multi-storey concrete structures. Apply, giving age, full details of experience, and salary required, to 395 George Road, Birmingham, 23.

**CONTRACTOR'S SURVEYOR REQUIRED** for an expanding firm of reinforced concrete specialists. Applicants, preferably 25-35, must have experience in interim and final valuations, with some knowledge of taking-off and price build-up for all trades. This is an excellent opening for a man with drive and initiative to secure a progressive position in a well-established firm with good connections. Give details of age, experience and present salary to Chief Surveyor, THE LONDON FERRO-CONCRETE CO., LTD., Maxted Road, Hemel Hempstead, Herts.

**RUDDOCK & MEIGHAN, LTD.** have a vacancy for an **ENGINEER AGENT**. Candidates need not necessarily be qualified but must have had good experience in general civil engineering works. Permanent position and good opportunity for advancement. Pension scheme in operation.—Apply, giving details of age, experience, and indication of salary, to Burford House, Harrow View, Wealdstone, Middlesex.

**CONSULTING Engineers** have vacancies for **JUNIOR ASSISTANTS** for water supply and sewerage work in the West of England. Salary will be according to age and experience.—Full details to Box V.1170, "The Contract Journal."

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**CIVIL ENGINEERS, India:** Applications are invited for vacancies on a heavy civil engineering project in India as follows: SENIOR ENGINEER with considerable experience as agent, or as Senior Engineer on large projects, to take charge of construction in a major area with turnover of approximately £100,000 per month. Salary in the region of £2,750 per annum, tax free. SECTION ENGINEERS, 28-35 years of age, with contracting experience on medium to large projects as engineer or sub-agent. Salaries in the region of £2,500 per annum, tax free. Tours are for 18 months on a single basis, though for the senior appointment only family accommodation may be available at a later date. A site bonus scheme is in operation. Please write, giving brief details of experience and qualifications, to The Personnel Office, THE CEMENTATION CO., LTD., 20 Albert Embankment, London, S.E.11.

**LANDSCAPE contractor REQUIRES WORKING ASSISTANT** this spring, with drive and initiative, for work connected with sportsfields, swimming pools, housing estates, etc.—Write, giving full particulars of experience and wages required, to Box V.1089, "The Contract Journal."

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For the head office of C. J. SIMS, LTD., building and civil engineering contractors, Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required, to:

C. J. SIMS, LTD.,  
2 Victoria Street, S.W.1.

**THE Building Equipment Division** of an old-established, ever-progressive company of suppliers and contractors to the building trade **REQUIRE a MANAGER** for their mechanical plant department. While a good knowledge of this type of equipment is required, the main task is to nationally expand the company's activities in this field and it is therefore equally essential for applicants not only to have been successful salesmen but to be able to give proof of their ability to organise and promote business by personnel training, advertising, etc. This is an exceptionally good opportunity for a man who is willing to work hard dedicating himself to the success of his task. Applicants must be of good appearance and pleasant disposition and possess the ability to get on with others. The position carries contributory pension scheme and non-contributory family security scheme. In no case instance please give brief particulars of career to date, stating past and present employers and earnings, to Box V.1179, "The Contract Journal."

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**SUPERVISOR REQUIRED** for erection of precast concrete flooring. Previous experience in this class of work preferred, design experience essential. Applicants must be capable of taking responsibility and progressing work from design stage to completion. Excellent opportunity for man with drive, initiative and ability. — Write Box V.1207, "The Contract Journal."

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## APPOINTMENTS VACANT

**CIVIL ENGINEER (Qualified)**, aged 30-40, **REQUIRED** by mining company in West Africa as Assistant to Civil Engineering Superintendent. Knowledge of permanent way maintenance in addition to general construction work essential. Commencing salary £1,700 per annum plus 5 per cent. bonus plus, for married man, passage or separation allowance of £10 per month and £5 per month for each child. 15-month tours followed by liberal leave on full salary in U.K. Return passage paid. Contributory pension scheme with retirement at age 55. Life assurance and dependants' income public works contract in West Africa. — Write, giving full details of experience, stating age, married or single, to **SIERRA LEONE DEVELOPMENT CO., LTD.**, Dept. A.C.E.3, City Gate House, Finsbury Square, E.C.2.

**CONTRACTORS' Plant: Young INSIDE SALES ASSISTANT** **REQUIRED** for London office, preferably with general knowledge of mechanical equipment. Good prospects, pension scheme after probationary period.—Applications, by letter or telephone, to Personnel Manager, **GEORGE COHEN SONS AND CO., LTD.** 600 Wood Lane, London, W.12. Tel.: Shepherds Bush 2070.

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**CAPABLE MAN REQUIRED** for plant hire department. Good prospects for the right man. Write, giving details, to **METROPLANT, LTD.**, 160/171 Cuckfield Road, London, N.W.2.

**QUANTITY SURVEYOR (Senior and Assistant)** **REQUIRED** by British civil engineering contractor for public works contract in West Africa. — Write brief details of experience to Box C.1920 LPE, Romano House, 399-401 Strand, W.C.2.

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## APPOINTMENTS WANTED

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**BUY the genuine CHILTERN TURF.** Instructions for laying supplied free. Guaranteed satisfactory results. Turves 3ft. x 1ft., precision machine cut, weed treated, close mown, £3 per 100 delivered. Let us quote you for levelling and laying with guaranteed Chiltern Turf or Grass Seed. Building estates laid-out for contractors. Orders taken week-days 9-5.—**CHILTERN CONTRACTORS**, Cryers Hill, High Wycombe, Bucks. Tel.: Holmer Green 3127.

**TURVES**—Machine-cut 3ft. x 1ft., close-mown, weed-treated, 60/- per 100. Keen trade rates. We would be pleased to quote for your levelling and laying.—**E. R. RANCE, LTD.**, 24 Sheepcot Lane, Watford. Telephone: Garston 2725.

**MASSEY - FERGUSON 65 TRACTORS** for HIRE, also comprehensive range of ATTACHMENTS, including Tipping Trailers, Loaders, Rotavators, and all Land Cultivation Implements, Turf-cutting Machines, etc. C.E. contractors catered for.—**RINGWAY CONTRACTORS LTD.**, Horsforth, near Leeds. Telephone: Horsforth 4805.

**SEEDING, TURFING, HEDGING, ROTARY CULTIVATION**, etc. **COWELL Agricultural Contractors**, Croston Rd., Farnington, Leyland. Leyland 81243/81649.

**QUICKTHORN HEDGING PLANTS**, strong, bushy, transplanted, 240/- per 1,000. 18in.-24in. high, less 10/- per 1,000 for 10,000 lots. Carriage paid for C.W.O.—**BLAKEDOWN NURSERIES, LTD.**, Blakedown, Kidderminster.

**SOILING, SEEDING and TURFING.** Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices.—**GILLIAM, Purley, Surrey.** UPLANDS 9222/6.

**CHESHIRE TURF for SALE**, ex existing playing field, close mown, machine-cut, ready to lay, some suitable for cricket squares, etc., 2/- 3/- sq. yd., delivered 10 miles. Reduction for quantities.—**FLOODS**, Mancot, Queensferry, near Chester. Tel.: Hawarden 2300.

**YOUR THORNY PROBLEMS SOLVED.** We can offer QUICKTHORN at a very competitive price. Let us quote you.—**ALFRED J. COX (GARDENS) LTD.**, Stoke Poges, Slough.

**QUICKS**, extra quality, fibrous rooted: 12-18in., 16/-; 145/-; 18-24in., 24/-; 200/-; 24-30in., 28/-; 270/-; extra heavy: 30-40in., 35/-; 330/-; special transplanted and cut back: 18-24in., 35/-; 330/-; 24-36in., 40/-; 360/-; **OVAL LEAF PRIVET**: 12-18in., 22/-; 215/-; 18-24in., 28/-; 275/-; special transplanted bushy: 18-24in., 35/-; 340/-; 24-30in., 50/-; 470/-; 36in., 70/-; **BEECH**: 10-16in., 20/- per 100; transplanted 3-year: 18-24in., 50/-; 480/-; 30-36in., 75/-; 700/-; **LONICERA NITIDA**: transplanted: 18-24in., 45/-; 420/-; 24-30in., 50/-; 450/-; All above prices at per 100 and 1,000. **CUPRESSUS LAWSONIANA**: 12-24in., 130/- per 100. **LAURELS**: transplanted: 12-18in., 18/- per doz.; 18-24in., 24/- per doz. All carriage paid for cash with order.—**GARDEN BEAUTY PRODUCTS**, Wickford, Essex. Telephone 2152.

### LAND AND PROPERTY

**SOUTHAMPTON.**—On main road to Portsmouth, SINGLE-STORY FACTORY AND WAREHOUSE having covered area of about 16,000 sq. ft., including Canteen, Stores, Offices, Central heating. Site extends to about Two Acres, thus providing scope for extension. Two drives-in. All main services. Extensive housing estates adjoin and provide good pool of male and female labour. Premises now vacant, are to be let on lease at economic rent of 3/6d. per sq. ft., or £3,000 p.a. Suit light industry or warehouse and distribution.—Full details and plans from Sole Agents: **HAMPTON AND SONS**, 6 Arlington Street, St. James's, S.W.1. HYD 8222.

### PROFESSIONAL SERVICES

**CIVIL ENGINEERING SERVICES** available on fee basis to contractors not desirous of maintaining permanent engineering staff. Setting out, surveys, preparation of monthly certificates, final accounts, claims, estimates, etc. Own transport. Write Box X.9962, "The Contract Journal," or phone ADDISCOMBE 3712.

**CARR'S QUIPS.**—ESTIMATES. To send tenders to me you consider not worth your trouble—would you think again if your turnover could be doubled?—**R. J. CARR**, Britain's Top Free-lance Estimator, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

**CIVIL ENGINEERING CLAIMS.**—Director/Consultant Engineer, with long and varied experience in high-level negotiation of contractors' claims, OFFERS SERVICES on a fee/commission basis. Write Box X.1058, "The Contract Journal."

### ACCOMMODATION

**CARAVANS to RENT** for men with families. Rent £7 to £17 per month. Delivery anywhere. **LANDSMAN'S SERVICES**, Buckden, Huntingdon. Telephone: Buckden 287.

**ACCOMMODATE** your employees in a cosy 4-berth CARAVAN, fully equipped with heating, lighting, cooking and washing facilities. Hire rates from 50/- per week for four persons. Caravans delivered anywhere.—**NORTHERN CARAVAN DISTRIBUTORS**, Handforth, Ches. Tel.: Mercury 4255/6.

### SALES BY TENDER

#### BOROUGH OF WEMBLEY.

OFFERS FOR SALVAGE AND SCREENED DUST.

OFFERS are invited for the PURCHASE of SALVAGE and SCREENED DUST from the REFUSE DISPOSAL WORKS for the six months commencing 1st April, 1960.

No Tender Forms are to be issued, but particulars of the Salvage and Screened Dust produced, together with an estimate of the expected output during the period concerned, may be obtained from the Director of Public Cleansing, Alpertown Lane, Wembley, on application, together with a stamped addressed envelope.

Offers, in plain sealed envelopes endorsed "Offers for Salvage (Refuse Disposal)", and bearing no indication of the sender, must be received by the TOWN CLERK, Town Hall, Wembley, not later than the 5th MARCH, 1960.

The Council do not bind themselves to accept the highest or any offer.

#### URBAN DISTRICT COUNCIL OF BRAINTREE AND BOCKING.

CODHAM MILL WATER SCHEME.

TENDERS FOR PUMPING MACHINERY.

The Council are about to PURCHASE ELECTRIC PUMPING MACHINERY with STAND-BY OIL PLANT for the development of a new source of water supply. The machinery will consist of:

- Duplicate Booster Pump, each capable of pumping 1,000,000 gallons in 16 hours against a head of approx. 150ft.
- Duplicate Booster Plant consisting of Electrically driven Pumps each capable of pumping at the rate of 20,000 g.p.h. against a head of approx. 110ft.
- Booster Pumping Machinery to pump at the rate of up to 165,000 g.p.h. into supply under a variable head not exceeding approx. 100ft.
- Oil-driven Generator as a stand-by to run an Electrically driven set (part of (c) above). Duty of pump, 65,000 g.p.h.

Three Submersible Pumps each capable of pumping 1,000,000 gallons in 16 hours against a head of approx. 220ft.

The same contractor is at liberty to tender for both contracts Nos. 2 and 3. It is suggested, however, that he should make his own arrangements and submit the oil-driven generator as a sub-contract if he does not manufacture such machinery himself.

Contractors are to apply, in the first instance, immediately to **HERBERT LAPWORTH PARTNERS**, 25 Victoria Street, Westminster, S.W.1, to be placed on a selected list.

**W. BALSON**, Clerk of the Council.  
Town Hall, Braintree, Essex.

### SALE BY AUCTION

By Instructions from the Executors of H. B. Thomas deceased.

**WENDENS AMBO, ESSEX.**  
(2 miles from Saffron Walden)

SALE BY AUCTION OF  
**CONTRACTORS' EQUIPMENT**

including—  
33ft. CRANE on revolving base; Winnet Cement Mixer, self-propelling; Two Cement Mixers; Dumper; Portable Electric Welder; Power Hacksaw; Large Drilling Machine; Paint Sprayer; Electric Motors; Fordson Tractor, with Shovel; other factors; ex W.D. Ford V8 Shooting Brake; Various Tools; Electrical Fittings; Large Doors; Parts of Two Large Huts, Which MESSRS.

**ERNEST JENNINGS** have had removed for convenience of sale to THE STATION GARAGE, STATION ROAD, WENDENS AMBO, to be offered on WEDNESDAY, 24th FEBRUARY, 1960, commencing at 2 p.m. Catalogues may be obtained, in due course, from the Auctioneers, 3 Cross Street, Saffron Walden. Tel. 2329.

## FULLER HORSEY SONS & CASSELL

AUCTIONEERS AND VALUERS

OF

**PLANT, MACHINERY AND FACTORIES**

Since 1807

**10 LLOYDS AVENUE**

**LONDON E.C.3**

**TELEPHONE: ROYAL 4861**

Authd.

### SALES BY AUCTION

By Order of the Secretary of State for War.

**READING, BERKS.**

**RANIKHET CAMP, TILHURST.**

At Church End Lane, off Norcot Road, about 1½ miles out from Reading.

AN IMPORTANT AUCTION SALE OF

**24 EXCELLENT ARMY HUTS.**

All of timber construction, with sound weatherboarded exterior, boarded and felted or corrugated asbestos clad roofing, timber flooring, matchboard and hardboard linings, partitions, etc. Some containing useful lighting, Heating, Sanitary and other Domestic Fittings. The huts are all in good sound condition, very suitable for village halls, pavilions, clubhouses, recreational, industrial and agricultural purposes. Dimensions vary from 60ft. x 20ft. to 180ft. x 25ft.

**SCAMMELL AND SMITH** are instructed to sell the above by AUCTION in lots, at the CAMP as above, on WEDNESDAY, 17th FEBRUARY, 1960, at 11.30 a.m.

On view two days prior to the Sale. Admission by catalogue (price 4d.) of the Auctioneers, The Auction Mart, Eastleigh, Hants. (Tel. 2201-3); and at Chandler's Ford, Hants.

**FENGATE, PETERBOROUGH,**

**NORTHAMPTONSHIRE.**

**FOX AND VERGETTE**

will sell by AUCTION

on FRIDAY, 26th FEBRUARY, 1960,

**CIVIL ENGINEERING PLANT AND**

**EQUIPMENT, VEHICLES, WORKSHOP**

**MACHINERY AND SPARES**

including—

Henderson 10-ton Twin Cableways; 15 Excavators (lima 802, 10RB, 17RB, Smith, N.C.K. and Priestman); Two R. Mobile Cranes; Five 6-ton Cables Cranes (Thornycroft and A.E.C.); 15 Tractors (D7, D6, D4, BTDS, TD9, Fowler, County Crawler, Ford Half-track); Caterpillar Tractor; Two Howard Trenchers; Muir-Hill and Chasidese Shovels; 10 Aveling-Barford and Six Drayton Dumpers; 20 9 cu. yd. Euclid Rear Dump Trucks; 19 Mixers (12S, 10S, 10 T, 14, 10); Nine Compressors (Static, Mobile, 2/6-Tool); 13 Lorries (Bedford, Dodge, Ford Tip, Foden, Ford Tanker, Bedford Artic.); Four Vans (Ford and Lloyd); Climax Fork Lift and Lister Auto Truck; Six Godfrey Blowers; with Electric Motors; Miscellaneous Spares and Workshop Machinery, including Lathes, Bench Drills, Milling and Grinding Machines.

Sale starts at 11 a.m.

Catalogues available from **FOX AND VERGETTE**, 16 Priestgate, Peterborough (Tel. 4261/2).

By Order of Manchester Corporation Waterworks Department and Edmund Nuttall, Sons and Co (London), Ltd.

**HAWESWATER CONTRACT.**

**EDWARD RUSHTON, SON AND KENYON**

will sell by AUCTION at the PLANT DEPOT,

LONGPOOL, KENDAL, on WEDNESDAY and THURS-

DAY, 2nd and 3rd MARCH, 1960, starting at

11 a.m. prompt each day.

**CONTRACTORS' PLANT**

including—

EXCAVATORS: Three 33RB, One 32RB, One 20RB, Three 19RB and One 17RB, c.w. Dragline Equipment and Soare Equipment; Westwood 5½-ton Grab TRACTORS: Two Vickers VR180 with Angledozer, International BTDS with Bullgrader Equipment, Fowler Challenger with Angledozer, Fiat Model 55L with Angledozer; Wallis and Stevens 8-ton Diesel Roller; Blaw Knox 3-Ton Rooter; Blaw Knox Byd. Scraper; Vee Type Snow Plough; COMPRESSORS: Two C.P.T. V08R, Portable Seven C.P.T. SP04-210 Diesel, Three Alfiey and McLean Size 6 Type 23B Stationary, Two I.R. Stationary, Five Air Receivers; MIXERS: Five 21½ Winnet Non-tilt Rotary Drum, Two Shering and Pitt 14 and 10 T Dittos, Winet 5, 3½ Dittos; Two 30-ton Portasilos; Two 35-ton Batchmatic Auto Batching Plants; Two 3M3 Non-auto Mobile Weighbatches; Three C.P.O.A.C. 1-yd. and 1-yd. Concrete Placers; Three 13½ cu. ft. Grot Pans; PUMPS: Nine 4in. Centrifugal with Electric Motor drive, Eight Pegson 3in. Dittos with Diesel Engine drive, Eight C.P.T. No. 7 Sludge Pump, Two Mucky Pumps, etc.; Two Petrol Pumps; Storage Tanks; VEHICLES: 18 Muir-Hill 10B 3-yd. Diesel Dumpers, Morris Minor Traveller, Five Land-Rovers, Eight Fordson 5-ton L.W.B. Dropside Lorries, Four Fordson S.W.B. Tippers, Six Logan 3½-ton Battery/Electric Lorries, Three Chasidese Shovels, Four Eimco Rocker Shovels, Trailers: Five Winches; Eight Transformers; Five Battery Charging Rectifiers; Three Motor driven Fans; Seven Generating Sets; Four Murex Welding Sets; Cable; Spencer-Hopwood Vertical Boiler; C.P.T. and Holman Air Drills and Breakers; I.R. Drill Shank Machine; 2,000lb. and 3,000lb. Explosives Magazines; C.M.C. and Myford Centre Lathes; Whitehead 32in. Circular Saw Bench; B. and D. V08R; large quantity of Plant; Soares: 2,300yd. Jubilee Track; 12,000ft. x 6in. Steel Piping; 1,700ft. 4in. Dittos; 5,400ft. 15in. Air Trunking; Sectional Cabins; Steel-framed Corrugated Sheeted Buildings; 16 tons No. 3 Lorry; 10 Piles, 10 Sift lengths; Gas Welding and Cutting Tackle; Theodolites and Levels, etc.

On view one week prior to Sale.

Catalogues from **EDWARD RUSHTON, SON AND KENYON**, 12 York Street, Manchester, 2 (Tel. CENTRAL 1937); or 50/51 Broad Street Avenue, London, E.C.2 (Tel. LONDON Wall 4601).

### INVENTIONS

**INDUSTRIAL ENGINEERS of repute invite.**

In strict confidence, DETAILS OF INVENTIONS with object of manufacturing and world distribution.

Write Box K.L.517, "The Contract Journal."



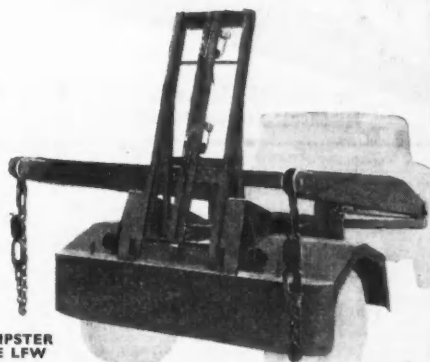
# 'CONTAINERISATION'

## A NEW DEVELOPMENT IN MATERIALS HANDLING

### THE DEMPSTER DUMPSTER SYSTEMS

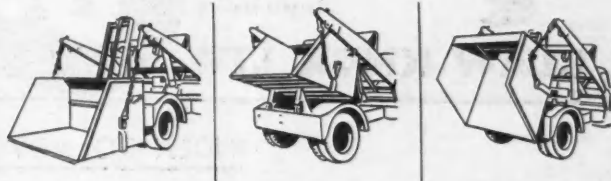
The entire waste and by-products of a major industrial plant and many materials can be handled by one man—the driver/operator of a Dempster-Dumpster vehicle—and a series of containers strategically located throughout the plant. Containers are designed to suit every type of application in sizes up to 15 cu. yards capacity with weight lifts of from 6,000—50,000 lbs.

If you have a waste or materials handling problem why not ask for a survey to be made without obligation. 16 mm. sound films also available by arrangement.



DUMPSTER  
TYPE LFW

#### TILT TYPES

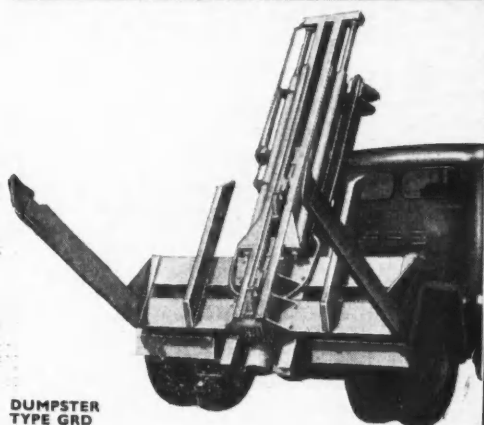


Illustrated above is the type LFW. The assembly with hydraulic operation is mounted on a standard chassis. This will handle tilt type and drop bottom containers. The illustrations below feature the type GRD which again handles both tilt type and drop bottom containers with a fork lift specifically designed for high dumping.

#### DROP BOTTOM TYPES



For large scale bulk collection and movement, the Dempster 'Dinosaur' is capable of picking up or setting down bodies of up to 40 cu. yards capacity. There are also the Dumpmaster self-loading vehicles with compaction of up to 3:1 and nominal compacted body capacities of between 18 and 30 cubic yards.



DUMPSTER  
TYPE GRD

Manufactured under licence in U.K. by



**POWELL DUFFRYN ENGINEERING CO. LTD.**

(Formerly Cambrian Wagon & Engineering Co. Ltd.)  
CAMBRIAN WORKS, MAINDY, CARDIFF

Telephone: Cardiff 29611

Telegrams: PEEDENG, CARDIFF





## Advertisements received too late for Classification

### BOROUGH OF WANSTEAD AND WOODFORD.

TRANSFER DEPOT — PROVISION OF PRECAST CONCRETE FRAME AND ROOF FOR GARAGE AND SALVAGE STORE.

TENDERS are invited for the SUPPLY AND ERECTION of a PRECAST CONCRETE FRAME for BUILDING of approx. 2,850 sq. ft., complete with Roofing and Rainwater Goods. These works may form part of a larger contract, the successful tenderer being nominated as a specialist sub-contractor to a main contractor.

Tender documents may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Municipal Offices, High Road, E.18, upon payment of £2 deposit, which will be returned upon receipt of a bona-fide Tender.

Sealed Tenders to be delivered to me by Noon on 26 FEBRUARY, 1960.

### BOROUGH OF TWICKENHAM.

EXTERNAL PAINTING OF CORPORATION HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of HOUSES, FLATS and TEMPORARY BUNGALOWS on SEVEN CORPORATION ESTATES. General Conditions and Specifications may be obtained on payment of a deposit of £2 2s. to the Borough Engineer and Surveyor, Municipal Offices, Twickenham, Telephone: Popesgrove 4466, extension 139.

Tenders must be enclosed in the official envelope, bearing no mark indicative of sender and received by me not later than 10 a.m. on FRIDAY, 4th March, 1960.

W. H. JONES, Town Clerk.  
Municipal Offices, Twickenham.

### WHITSTABLE URBAN DISTRICT COUNCIL.

STATION ROAD DEPOT.

TENDERS are invited for the CONSTRUCTION in BRICKWORK and CORRUGATED ASBESTOS SHEETING of a NEW 10,000 sq. ft. HIGHWAYS DEPOT. The Structural Steelwork is to be Erected by MESSRS. DUNLOP AND RANKEN.

Forms of Tender and Bills of Quantities may be obtained from, and Plans will be available for inspection during normal office hours, at the office of the Engineer and Surveyor, The Castle, Whitstable.

Tenders, in plain sealed envelopes endorsed "Tender—Station Road Depot," are to be delivered to the undersigned not later than First Post on MONDAY, 29th February, 1960.

F. TOMLINSON, Clerk of the Council.  
The Castle, Whitstable.

8th February, 1960.

### WHITSTABLE URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS ACT, 1892, AND HIGHWAYS ACT, 1959.

MARINE CRESCENT—Length 2,200ft. approx. PRIEST WALK—Length 505ft. approx. PRINCESS ROAD (PART OF)—Length 749ft. approx. ST. SWITHINS ROAD (PART OF)—Length 1,08ft. approx.

TENDERS are invited for the MAKING-UP and SURFACE WATER SEWERINGS of the ABOVE ROADS. The works comprise the Construction of Concrete Carriageways, Footway Paving with Tarmacadam Verges, and the Construction of Surface Water Sewers.

Specifications, Conditions of Tender and Bills of Quantity may be obtained, and the Drawings inspected, at the Office of the Engineer and Surveyor, The Castle, Whitstable, during normal office hours.

The Tenders are to be returned to the undersigned, in a plain sealed envelope endorsed as instructed on the contract documents, and must be delivered by not later than 9 a.m. on MONDAY, 29th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. TOMLINSON, Clerk of the Council.  
The Castle, Whitstable.

8th February, 1960.

### WIRRAL URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS—FLORENCE AVENUE, HESWALL.

FIXED-PRICE TENDERS are invited for the MAKING-UP of Florence Avenue, Heswall.

The Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Heswall, at which office the Plans and Conditions of Contract may be inspected during normal office hours.

Tenders, in plain sealed envelopes endorsed "Private Street Works—Florence Avenue," to be delivered to the undersigned before 10 a.m. on 11th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. F. ROBERTS, Clerk of the Council.  
Council Offices, Heswall, Wirral.

### CONTRACT PLANNING ENGINEER REQUIRED.

REQUIRED for a well-established and expanding company specialising in reinforced concrete structures. The post involves the planning of labour, plant and materials for contracts up to £100,000. Applicants should have a thorough practical knowledge of in-situ and precast concrete work, and preferably some planning experience.—Applications, giving age, salary and experience, to Contracts Manager, THE LONDON FERRO-CONCRETE CO., LTD., Maxted Road, Hemel Hempstead, Herts.

WANTED, SITE CLERK for contracts in Devon and Cornwall. Permanent. Good remuneration and subsistence paid to suitable applicant. Write Box V.1180, "The Contract Journal."

### ENGINEER: Housing Development division

(centred in Surrey) of substantial construction company SEEK services of an ENGINEER, age 25-35, for work on the design of housing estate schemes, including site surveys and preparation of drawings. Good knowledge of sewerage and road design and good draughtsmanship essential. Pensionable, permanent position with good prospects. Assistance can be given with living accommodation.—Apply, stating age, qualifications, commencing salary required, and giving full details, to Box V.1211, "The Contract Journal."

### BOROUGH OF CASTLEFORD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the UNDER-MENTIONED APPOINTMENTS in the Borough Engineer and Surveyor's Department:—

Senior Assistant Engineer, Special Grade (£785 to £1,070, commencing salary depending on experience but not less than £905).

Applicants should be corporate members of the Institution of Municipal and/or Civil Engineers and have had considerable experience in a municipal engineer's office.

Assistant Architect, Grade A.P.T. I (£610 to £765).

Applicants who have passed the Intermediate R.I.B.A. Examination, or its equivalent, at one of the recognised schools of architecture.

The appointments are superannuable, subject to one month's notice on either side, and National Joint Council Service Conditions. The successful applicants will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for successful married applicants.

Applications, on forms obtainable from me, to be returned by the 5th MARCH, 1960.

Canvassing disqualified. ERNEST HUTCHINSON, Town Clerk.

Town Hall, Castleford.

### BOROUGH OF LEYTON.

APPLICATIONS invited for APPOINTMENT of SEWER FOREMAN at a salary in accordance with Miscellaneous Grade III of £525 per annum, rising to £580 per annum, plus £30 per annum London Weighting. Appointment subject to N.I.C. Conditions of Service for Miscellaneous Classes of Officers. Five-day week of 44 hours.

Experience of sewer construction and maintenance essential. Apply, with full details, to Borough Engineer, Town Hall, Leyton, E.10, not later than SATURDAY, 27th February, 1960.

D. J. OSBORNE, Town Clerk.

Town Hall, Leyton, E.10.

### BOROUGH OF BARKING.

MASON PAVIERS (T.U.) REQUIRED, hourly rate 4s. 11½d. per hour (£11 4s. 4d. per 44-hour week). Superannuation and sick benefit schemes.—Apply BOROUGH ENGINEER AND SURVEYOR, Town Hall, Barking, Essex.

JAMAICA.—TECHNICAL SALES REPRESENTATIVE REQUIRED for leading distributors of earthmoving and allied equipment. Sound technical knowledge and wide practical experience essential. Applicants should be single, between ages of 26 and 44. Excellent prospects.—Write in strictest confidence, giving full details of previous employment and types of equipment handled, to Box V.1200, "The Contract Journal."

A.M.I.C.E. REQUIRED, aged about 35, for virile and expanding firm. Must be first-class engineer and estimator, with drive, personality and administrative ability needed to produce results; capable of controlling throughout medium-sized road, sewer, bridge, etc., contracts from tendering, setting-out, site measurements to final certificate. Prospects unlimited. A man of the right calibre, even if not academically qualified, would also be considered. Write, giving fullest particulars and salary required, to FARMLOE AND MCVIE, LTD., 10 High Street, Welwyn, Hertfordshire.

COST AND MEASURING SURVEYOR REQUIRED for building and civil engineering. Apply in confidence, giving details of education, training, age, and approx. salary required, to RILEY AND WHISHAW, LTD., Haslemere, Surrey.

PLANT FITTER REQUIRED for East London building contractors. Permanent position; good rate. — Write Box V.1186, "The Contract Journal."

ASSISTANT CIVIL ENGINEERS REQUIRED for contracts in the north of England. Applicants must be accurate with instruments and have initiative, drive, and have had site experience. Write, stating age, experience and salary required, to Box V.1210, "The Contract Journal."

JUNIOR SURVEYOR REQUIRED by expanding London building contractors, for site measuring, working up and generally assisting senior surveyor on contract work. State age and salary required.—Write Box V.1181, "The Contract Journal."

TARSLAG, LTD., have vacancies for experienced SITE ENGINEERS who wish to undertake more responsible positions as SUB-AGENTS and SENIOR ENGINEERS on various interesting contracts centralised in North Midlands. Age 25 to 30, with a minimum of five years' contracting experience. Apply to Upper Wortley Road, Rotherham.

SURFACING CONTRACTORS REQUIRE an ASSISTANT to MANAGER in London area. Must have knowledge of estimating, supervision of tarmacadam and asphalt contracts and prepare final accounts.—Write, stating previous experience and salary required, Box V.1178, "The Contract Journal."

ASSISTANT to DIRECTOR REQUIRED, 25/35. Experience of earthmoving contracts and Caterpillar plant essential. Progressive job. Car provided.—Apply: MOBILE HAULAGE CO., LTD., 230 Tottenham Court Road, London W.1. Tel: Langham 7833/5.

FOREMAN REQUIRED immediately for south-western area. Experienced in general road work, drainage, etc. Permanent position. Reply Box V.1212, "The Contract Journal."

ALDERTON CONSTRUCTION COMPANY REQUIRES MEASURING QUANTITY SURVEYOR experienced in costing, to deal with group contracts. Excellent prospects for right man.—Tel.: TRAFALGAR 1494.

THE LONDON FERRO-CONCRETE CO., LTD., invite applications from ambitious young ENGINEERS to take charge of contracts up to £100,000. This is a first-class opportunity for men with experience in reinforced concrete construction to obtain rapid promotion within an expanding company.—Applications, stating age, experience and qualifications, to Contracts Manager, The London Ferro-Concrete Co., Ltd., Maxted Road, Hemel Hempstead, Herts.

ROOFING contractors, old-established in the Midlands, REQUIRE GENERAL FOREMAN. Excellent opportunity for first-class man with sound, practical knowledge of slating and tiling.—Reply, stating age, experience, qualifications, and salary required, to Box V.1174, "The Contract Journal."

WORKING FOREMAN CARPENTER REQUIRED for flats contract, London area. Experience in casing reinforced concrete structure and accuracy with measurements essential. Excellent conditions and bonus to suitable man.—Write Box V.1172, "The Contract Journal."

COMPETENT GENERAL FOREMAN with drive and initiative REQUIRED for flats contract in North London. Good salary and bonus to first-class man.—Write, stating age and experience, to Box V.1173, "The Contract Journal."

AGENT and SUB-AGENT REQUIRED. Wide experience roads, sewers, reinforced concrete, bulk excavation. Knowledge of sea defence works an asset. Permanent positions to satisfactory applicants. East Kent area.—Write in confidence, stating age, full details of experience, and salary expected, to Box V.1190, "The Contract Journal."

CIVIL ENGINEERING ESTIMATOR REQUIRED for contractors' London office. Applicants must have had at least five years' experience as Agent or Senior Site Engineer and be capable of competitive tendering for all types of civil engineering contracts. It is intended that the position shall be a permanent one and pension scheme is in operation. Applications, setting out brief details of personal particulars, career, and indication of salary required, to Box V.1187, "The Contract Journal."

ENGINEER-AGENT REQUIRED for large contract in Midlands. Applicants must be thoroughly experienced in reinforced concrete and steelwork. This post offers excellent prospects in an expanding organisation.—Applicants should apply in writing, giving full details of past experience, age, qualifications, etc., to: MANAGING DIRECTOR, 11 Booth Street, Birmingham, 21.

CIVIL ENGINEER: An opportunity is available for an ENGINEER, aged 25-30, to join FOUNDATION ENGINEERING, LTD., a specialist company in the Richard Costain group. Candidates must possess a degree in engineering and preferably have completed a post-graduate course in soil mechanics. The person appointed will be based on London but must be prepared to travel in the U.K. or overseas to control site investigations.—Applications should be addressed to Senior Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

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### BOROUGH OF LEYTON.

APPOINTMENT OF CLERK OF WORKS—MAIN DRAINAGE.

APPLICATIONS are invited for the ABOVE APPOINTMENT in the Borough Engineer's Department. Salary £18-£20 per week, to be fixed within this range in accordance with experience and qualifications.

The appointment is for a period of two years, subject to satisfactory service, with the possibility of further service thereafter, to a medical examination, and to the National Scheme of Conditions of Service.

Applicants should have had extensive experience on large main drainage contracts and the successful applicant will be required to commence his duties in June, 1960.

Applications, giving age, training and full details of previous experience, and the names and addresses of two persons to whom reference may be made, to be received by the Borough Engineer, Town Hall, Leyton, E.10, not later than SATURDAY, 27th February, 1960.

D. J. OSBORNE, Town Clerk.  
Town Hall, Leyton, E.10.

### CHIGWELL URBAN DISTRICT COUNCIL.

CLERK OF WORKS (ROADS AND SEWERS).

APPLICATIONS invited for the ABOVE APPOINTMENT for supervision of construction of road and sewer works by contractors for Council and in private estate developments. Salary at rate of £758 per annum, rising by annual increments to £910.

Nominally on temporary staff but, after six months' satisfactory probationary period, expected to continue indefinitely. Subject to medical examination. Taken into Superannuation Scheme. One month's notice on either side.

Must be experienced in supervising and controlling contractors, setting-out, use of level, working from drawings, specifications and quantities, interim and final measurements.

Apply, giving age, experience, present and previous appointments, with names and addresses of two referees, to ENGINEER AND SURVEYOR, Council Offices, Loughton, Essex, not later than TUESDAY, 1st March, 1960.

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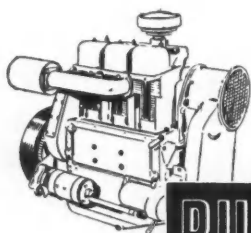
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**RUSTON** air-cooled diesels 4-466 b.h.p.

*Today's most advanced power units for all contractors' plant . . . and backed by a first-class after-sales service!*

# THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

**THE CONTRACT JOURNAL**

Incorporating  
THE BRITISH CONSTRUCTIONAL ENGINEER  
and  
THE CONTRACTOR  
Established 1879

No. 4,207 Vol. CLXXVI Feb. 11, 1960

Editor:  
LAWRENCE MCCARTHY

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**Publishers**

The Contract Journal Co., Ltd.,  
32 Southwark Bridge Road, London, S.E.1.  
Telephone: Waterloo 3411 (7 lines).  
Telegrams: "Seejasir," Sedist, London.

**Subscriptions**

"The Contract Journal" can be supplied direct from the above offices. Subscriptions, payable in advance: Yearly, £5 4s. (post free); half-yearly, £2 12s. An order form appears on page 784.

**Advertisements**

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

**PRICE STABILITY**

THE Federation of British Industries have answered the Chancellor of the Exchequer's recent appeal for stable prices with a salutary piece of economic realism. In an open letter, their President emphasises the important part which will be played in determining price policy by outside factors such as competition, the extent to which a firm can control its own costs, wage pressure and the need to retain earnings. Price stability, the F.B.I. state, is a matter not only for private manufacturing industry and trade unions, but also for other bodies such as nationalised industries, distributors and the Government itself; all sections of industry and commerce are involved.

Contractors will not disagree with this reasoning. Something like 90 per cent. of a building contract is basically beyond the direct control of an individual contractor; materials costs account for about 55 per cent. and labour costs for about 35 per cent.

More recently, a further complication has been introduced—firm prices. The official figures show that there was a welcome reduction in building costs of some 2 per cent. in 1959 compared with 1958 and the Government, no doubt, are congratulating themselves on this as being largely due to their insistence on firm prices. This may be so, but recent developments suggest that firm-price tendering can also react to the disadvantage of the building owner. Inevitably, contractors seek to be sure of their ground before submitting prices; no contractor wittingly submits a firm-price for a largish contract if there is the prospect of wage increases and shorter hours. The tendency must, therefore, be for him to urge on any person or body concerned with negotiating wage rates and working hours to come to agreement quickly, even if this results in an earlier increase in costs. After all, to be forewarned is to be forearmed, particularly where contracts worth many hundreds of thousands of pounds are involved. Something like this must almost certainly have been in the minds of those who negotiated the recent civil engineering agreement. If so, it is a development that must have been quite unforeseen by the Ministry.

The F.B.I. statement has put the question in proper perspective. The Chancellor had, perhaps, tended to over-simplify the prices problem and the F.B.I. were right to point out the complications inevitably involved. The contracting industry benefits from stability of prices in the same way as any other industry. It is, of course, anxious to reduce its own prices. But if this does not happen it would be quite wrong to suggest that it is failing in its duty. The Government must be sure that their own policies and activities help rather than hinder moves towards more stable and even lower prices.

**Returning to Normal?**

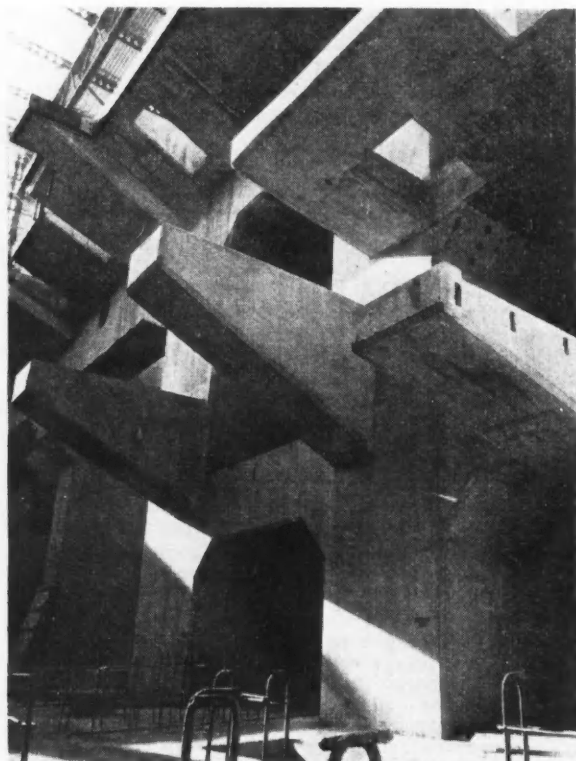
AT last there are real signs of an improvement in Anglo-Egyptian relations. During the past week it has been announced that B.O.A.C., after a lapse of 3½ years, will resume service through Egypt. Of particular interest, however, is the Egyptian Government's invitation for a small party of British businessmen to visit their country.

Obviously, it is too early to forecast the outcome of the pending visit, which will be in the form of a reconnaissance to ascertain prospects for future trade. But at least it is an indication of the desire of both countries to return to normal trading.

**Road Casualties**

FIGURES released by the Ministry of Transport show that accidents on the roads in Great Britain in December resulted in 881 deaths. This was 185 more than in December, 1958, and the highest monthly total since December, 1941, when the streets at night were blacked out. The total for all casualties in 1959 was 333,453, an increase of 33,686 on 1958.

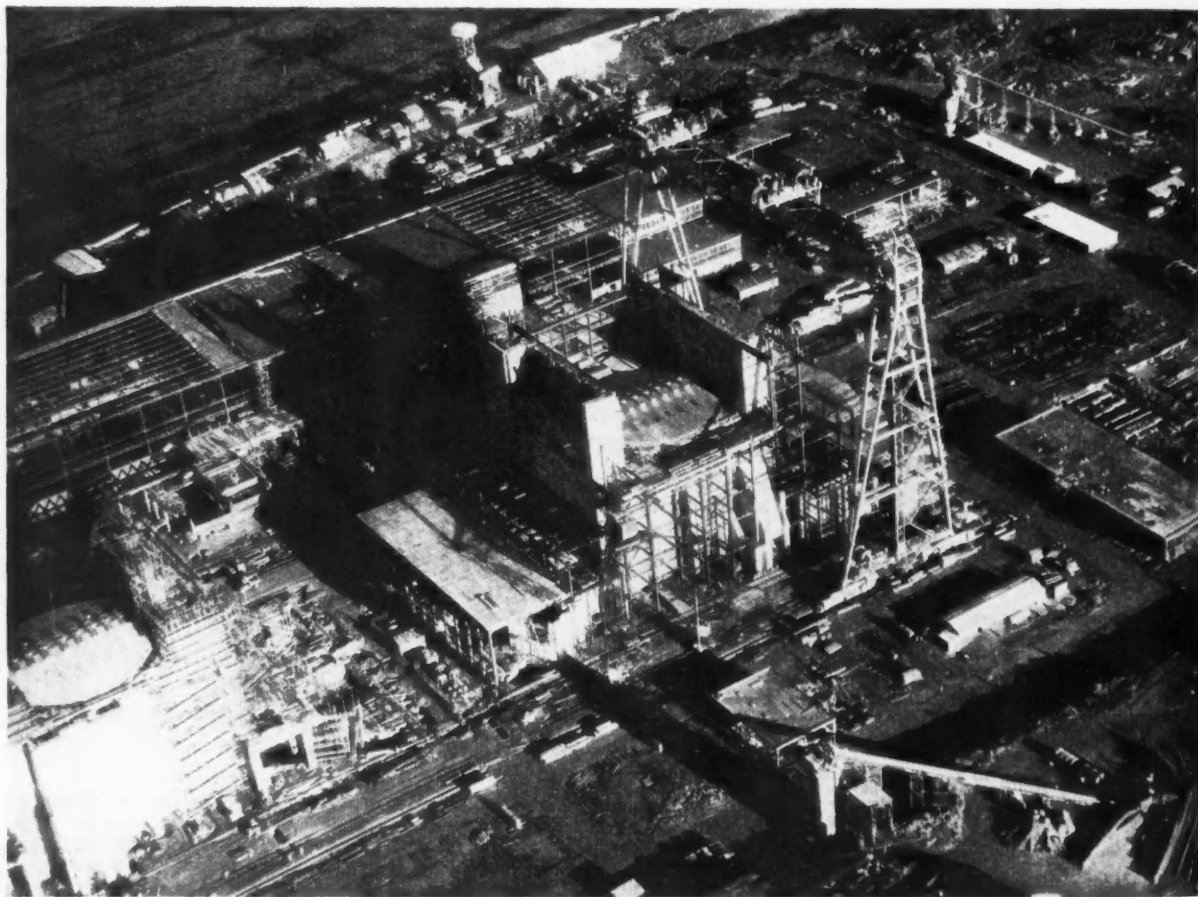
These figures present a challenge, both to road users and designers, but above all to the Government to take every possible step to combat this rising toll.



One of the massive concrete structures which will support the 93.5-MW steam turbo-alternators

## HINKLEY POINT NUCLEAR POWER STATION

**Civil Works Substantially  
Complete on £60m.  
Project**



Aerial view of Hinkley Point. On No. 1 reactor the charge floor walls are complete and installation of the 67ft. diameter pressure vessel is proceeding



**C**IVIL engineering works on the site of the £60m. Hinkley Point atomic power station, Bridgwater, Som., are now substantially complete and the labour force, reaching its peak of 2,000, is increasingly concerned with the installation of equipment. The mechanical engineering phase of the work is now in full swing.

In terms of concrete work, a total of 235,000 cu. yd. have been placed out of the 300,000 cu. yd. required in all, by Taylor Woodrow Construction, Ltd. The main shielding walls of the first reactor are complete and stand 160ft. above the general station level. These shield walls, which also include the pile cap structure, are now flanked on two sides by massive concrete plinths, 30ft. high. The plinths will support the six steam raising units, three on either side of the reactor building. Beyond these plinths are two blower houses for which steelwork has been erected and which are now nearing completion.

Considerable headway has also been made on the second reactor, the shield walls being complete up to pilecap level. Work is now proceeding with the pilecap structure. Altogether, on the two reactors, a total of 86,000 cu. yd. of concrete have been placed and 1,920 tons of structural steelwork erected.

Construction of the largest turbine hall in Europe and its extension building is also well advanced. The main walls and floor of the basement have been completed and two of the main turbo-alternator blocks have been finished. Steelwork for the superstructure is in position and cladding is proceeding. In this building and its foundations, some 40,000 cu. yd. of concrete have been placed and 1,820 tons of structural steelwork erected.

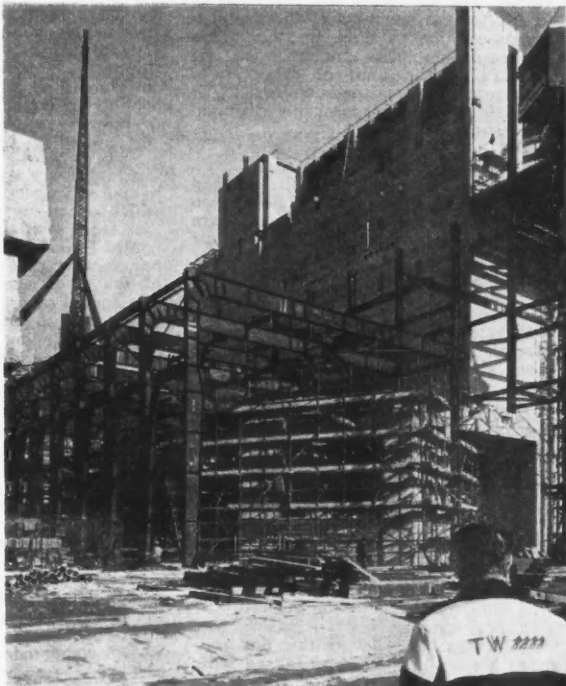
The shore-end of the cooling water system is substantially complete and ready for installation of equipment; the roof of the 90ft. deep pumphouse is now being finished. The two 11ft. diameter water tunnels and the 7ft. diameter access tunnel have now been driven out to a point just short of the position of the intake structure, 2,000ft. off-shore. This structure is being built from the caisson unit which was floated out and sunk into position in June last and which is now linked to the shore by an aerial ropeway. The caisson has now been pumped free from sea water and is ready for construction of the foundations and the tunnel junctions. The outfall works have been completed within a sheet piled cofferdam, shortly to be removed, projecting 800ft. across the fore-shore.

In parallel with the construction of the major works, the complicated patterns of services have been installed with minimum inconvenience to the movements of traffic around the site. The two and a half miles of roads put down during the first five months' work on the contract have eliminated access and vehicular movement problems. Ancillary buildings such as the workshops, administration buildings, canteen and welfare block are now under construction.

Cable subways, which were installed at an early date, enable main cable laying from the transformer annexe to the switch-gear compound and from the reactors to the central block to be carried out without interference with other operations.

#### Sea-Borne Equipment

A steady flow of heavy parts is arriving by sea at the specially built wharf at the reconstructed Roman port of Combach



Steelwork to support the steam-raising units, beside the completed biological shield of No. 1 reactor

on the river Parrett, five miles from the site on the Bristol Channel coast. Some 30,000 tons of cargo are expected at the wharf, which has a radio link with ships up to 25 miles out at sea.

Already many of the prefabricated sections of the steam raising units and the reactor pressure vessels have reached the site via Combach from the Renfrew and

Dalmuir works of Babcock and Wilcox in Scotland. The ring sections, 2½in. thick, are being welded together on site to form the 12 steam raising units, each 90ft. high and 21½ft. diameter, which will provide steam for the turbo-alternators.

The preformed sections of the two 67ft. diameter spherical pressure vessels for the reactors are now being fabricated into courses for site erection. Nearly half of the shell for No. 1 reactor is in position inside the biological shield. The large tubular diagrid structure, weighing nearly 170 tons, to support No. 1 reactor core, was shipped to site in four sections. It has been assembled and is now ready for installation inside the lower half of the pressure vessel.

Manufacture of the main electrical equipment at the Rugby, Stafford and Netherton plants of the English Electric Co. is well advanced and delivery from the Netherton works has already been made of the first condenser. In all, six main turbo-alternators, each of 93.5-MW rating, and three variable speed sets each of 33-MW, are being provided, the latter designed to provide power for the gas circulators.

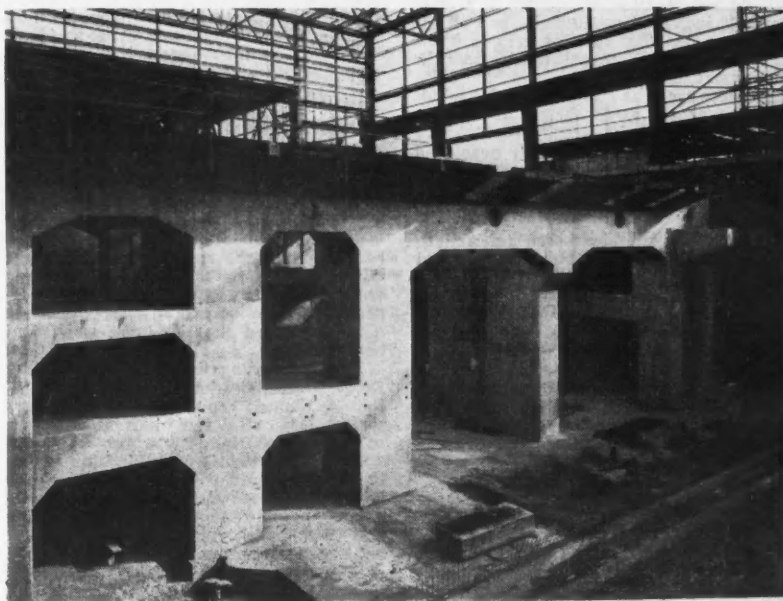
The twelve gas circulators, each consisting of a single-stage axial blower, driven by a squirrel-cage motor of 7,000-h.p. capacity are being made at the Whetstone Works of the English Electric Co., which is also the design and development centre for work on the station. The first of the circulators will be delivered to site in the middle of 1960.

The station is expected to be in commission in 1962.

#### EDINBURGH REJECT DIRECT LABOUR PROPOSAL

Edinburgh Corporation have decided not to establish a direct labour department. The proposal came from the Edinburgh Trades Council and was opposed by the Edinburgh and District Master Builders Association and the Electrical Contractors Association of Scotland.

Mr. A. M. Carmichael told the Corporation that the contractors in the city could meet all commitments, and provide a faster, and more economic, service than could be offered by any direct labour department. He also objected to any pilot scheme on the grounds that such schemes were very often the thin end of the wedge, and that an experiment tended to become a permanency.



Another view of the concrete structure in the turbine hall built to support the turbo-alternators

## ECONOMIC PLANNERS UNDER FIRE

### N.F.B.T.E. Annual General Meeting

SOME trenchant criticisms of "our economic planners" were made by Mr. T. V. Prosser, retiring president of the National Federation of Building Trades Employers, when he spoke at the annual general meeting of the Federation in London last week. He said that effective development of the building industry was only possible in an atmosphere free from the threat of frequent interference by financial policies arising from economic necessity.

"Our economic planners," he said, "continue to support the doctrine that the national economy should be allowed to develop regardless of the influences which radiate from our activities. . . . This doctrine should be re-examined having regard to the steadily increasing demands for our services inspired by essential needs which have clearly established our industry as the largest industrial unit in a nation whose very existence is dependent upon industrial virility."

"Because of our size and ramifications we have far-reaching effects on the whole of the commercial and industrial activities of the country, and with this heavy responsibility on our shoulders we have a duty to develop our efficiency to the maximum degree. We accept this responsibility and have done much in our work towards this goal with improved and greatly widened educational courses for operatives and management personnel, by constant research and the introduction of new techniques, by mechanisation, and by training in new skills."

"If we can be free to develop our maximum efficiency," Mr. Prosser continued, "and thereby minimise our demands on the public and private pocket, the need to interfere with the volume and flow of work would be reduced."

The operatives' leaders were only too willing and ready to co-operate in a drive towards increased productivity and all the attendant benefits, such as greater hours of leisure, which would result from its attainment.

If there were any doubts in the minds of some people as to their unity in this common purpose, he would ask: "Where else will you find such a highly developed form of peaceful co-existence as we enjoy in the building industry?"

#### Restrictive Practices

The retiring president then referred to the Restrictive Trade Practices Act and said that the Registrar of Restrictive Trade Practices had served Notice of Reference in respect of the agreement of the Birmingham Association. The National Federation had been appointed the representative respondent because there was no doubt that, whatever decisions the court might reach in regard to the Birmingham agreement, the Registrar would subsequently invite all Associations within the National Federation to amend their agreements accordingly.

He said that as he understood it, the Federation would have to show to the Court that the agreement among members of the Birmingham Association to recommend the use, for instance, of agreed daywork rates or agreed haulage rates, or the same forms of contract, were not only in the public interest, but in fact conferred a substantial benefit on the public,

The court was not primarily concerned to rule as to whether the National Schedule of Daywork Charges represented a fair basis of charging or whether the limit in the National Quantities Rule was correct. What it would be asked to decide, for example, was whether it was permitted by the Act for the members of the Birmingham Association to agree together a fair and reasonable basis for charging for dayworks or the limit of value above which quantities must be supplied.

He said he had no reasonable doubt of the outcome of the case.

#### Private Housing

Earlier in his speech, Mr. Prosser had spoken of the activities of the Federation of Registered House-Builders. It gave him considerable satisfaction to note that last year the number of dwellings built for private sale exceeded the number built by local authorities for renting for the first time since the war.

"There is still a long way to go before we reach the annual totals of houses for private sale achieved in pre-war years," he said, "but the trend is clearly defined. To some extent economic necessity is stimulating this trend, for a private house purchased with the aid of a building society mortgage costs in the full term only 1½ times the selling price whereas a house of the same value built for local authorities with the aid of borrowed funds costs the country two and a half to three times the original price after taking account of subsidies."

"Excessive funds locked up in this way are an embarrassment to the flexibility of the national economy and our industry can naturally assist in relieving this pressure, but the big problem here, as indeed with all forms of building, is the availability of land."

The speaker pointed out that the Federation had set up a working party to examine the whole question of land for essential housing development, paying strict regard to the expanding needs of the future, and when their report was ready they would be making representations to the appropriate authorities. If more land were not available quickly we should be faced with the most serious crisis in the years ahead.

On the subject of safety, Mr. Prosser said that the Federation's campaign to reduce accidents in building continued and they had just published a booklet giving guidance to building firms on how to organise themselves to prevent accidents happening on their sites.

#### Industrial Relations

Following his speech, the retiring president invited discussion on the Federation's annual report, taking first the subject of industrial relations.

The annual report states that the recent settlement on working hours could be regarded as satisfactory. The operatives' leaders had not sought to depart from the principle that the standard rate of wages was calculated on the basis of a 44-hour week, and they had sought no compensating wage increase in respect of those districts where the 46½-hour week had been worked.

Taking up this point, Mr. G. Banks (W. Kent) wondered whether the outcome of the settlement could be regarded as satisfactory. He said that there were members of the industry whose maxim on wage negotiations was, "Find out what they are asking for and give as little as possible." What was wanted was a sufficient labour force of sufficient quality. Constant small payments must be avoided, but to progress employers must be prepared to buy quality.

Mr. H. Shouksmith (York) agreed with the last point, adding that the building industry was a very long-term industry and as such there should be long-term agree-

ments with the operatives. He thought that the American system of three-year contracts with their building operatives might be looked into, and also suggested a graded system of increases so that any variations could be allowed for in preparing tenders.

Mr. J. B. Ratcliffe, D.S.O. (Caterham) said that bearing in mind the relationship of output and wages more advice should be sought on the use of incentive schemes.

The chairman of the Wages and Conditions Committee, Mr. L. A. Walden, C.B.E., said that the subject of demarcation between unions whose work was closely related, such as the plumbers and heating fitters, was receiving the close attention of the committee, and an invitation had been sent to all regions to send in their ideas on how the problem could be tackled.

#### Apprentices

There was a spirited discussion on rate of apprentice recruitment into the industry, which according to the annual report is "far from satisfactory."

Mr. Prosser confirmed the opinion of one speaker that there was a large bulge of the 35-45 age group in the industry. The annual report, he said, emphasised the importance of apprentice intake. A special appeal was being launched to companies to take in more and he hoped that 1960 would be a bumper year for recruitment. The industry could not afford not to afford them.

Mr. R. Braybon (Brighton) asked, "Are we getting the right type of boy?" There were many boys available without the right requirements, he stated, but building needed boys who were capable of being trained. The job must be made to look attractive if labour of the necessary quality was to be recruited.

Quoting from the annual report, Mr. A. H. Pope (Swindon) drew attention to the fact that the number of apprentices in all trades at the end of the year was 32,477 compared with 35,841 at the end of 1958. "Another 3,000 gone down the drain at the same time as the Government turned the tap on," he exclaimed.

He said that in his own region there existed a school of thought that apprentices were an expensive luxury. Often it was impossible to maintain an apprentice team, especially when another contractor moved into the area paying piecework gangs and above union rates.

#### Accidents

Mr. Walden stressed the vital importance of the application of accident prevention measures. The Federation had been reminded by the Chief Inspector of Factories of the fall back in the number of accidents and fatalities in their industry. He hoped that all regions would give close consideration to the Federation's new booklet—"Organise for Safety—A Guide for Building Firms"—and implement its recommendations.

He also pointed out that the Royal Society for the Prevention of Accidents had for the first time decided to award the Sir George Earle Trophy to a unit of the building or civil engineering industries which made the greatest contribution to safety during 1960. This, he thought, should stimulate the interest of the Federation's members in accident prevention.

#### Direct Labour

Mr. C. G. Drewitt (Bournemouth) was seriously concerned over the question of direct labour building operations by local authorities. This, he said, was a menace to the industry and a challenge which the Federation must take up.

"It is up to us to tender in strict competition with direct labour," he stated. "If not direct labour will grow until it crushes us all."

The annual report was adopted by the meeting.

#### New President

Mr. D. E. Woodbine Parish (London) was installed as president for 1960. On taking office he said that basically he saw

(Concluded on page 716)



T. V. PROSSER



## RECENT DEVELOPMENTS IN THE DESIGN OF HIGHWAY BRIDGES

WITH introduction of new ideas and techniques the post-war years, particularly, have seen a number of advancements in the design and construction of bridge structures. Just how much progress has been made was outlined last week in a Paper "Recent Developments in Highway Bridge Design," presented at a meeting of the Institution of Highway Engineers in London.

The authors, C. S. Chettoe, B.Sc., M.I.C.E., and P. F. Stott, M.A., A.M.I.C.E., began by describing highway loads, design loading, road layout, general design theories and methods, and foundations. They then went on to discuss steel and concrete bridges as follows:

Although steel as a material of bridge construction has been in use for a long time the last few years have seen advances in steel making which have made more generally available higher quality materials. There is now a guaranteed yield point for mild steel. This has led to minor changes in B.S.153.

Considerable attention has been focused on the danger of brittle fracture in mild steels by the failure of a large bridge in Canada. Certain steels show a change in character at low temperature, losing their ductility and becoming brittle. In this condition the material is liable to cracking starting at points of high stress concentration such as connections, and welding or metallurgical defects, and propagated in such a way as may become catastrophic in welded structures. Where the danger exists the use of a notch ductile steel to B.S.2762 is desirable especially for thicker members.

### Improved Steelmaking

High tensile steel has become more easily available generally to B.S.548, and to B.S.968 in weldable quality. The use of these steels has now become economical for medium as well as long spans.

The use of low alloy steel has not progressed as fast as some have hoped. B.S.15 includes two copper bearing steels of which one with 0.20 per cent, to 0.35 per cent, copper gives reasonable resistance to corrosion. In the high tensile range there are steels such as Corten with even better resistance.

In the field of corrosion generally and of protective treatments considerable developments have taken place, due to a great extent to the work of Hudson and his colleagues at the British Iron and Steel Research Association.

Details are better designed for accessibility and painting than formerly. The welded box sections and tubes now coming into common use have obvious advantages in this connection.

Preparation of surfaces by shot or grit blasting is now widely adopted and is much more satisfactory than scraping and wirebrushing. Sprayed metal coatings of zinc or aluminium are recommended and are generally used where steelwork is not easily accessible or is in exposed situations and/or salt-laden atmospheres. Paint coatings have improved and intervals between painting have correspondingly increased.

Following improvement in steelmaking and design techniques the basic stress for mild steel has been increased to 9 tons per square inch with many variations in actual stresses according to circumstances, but with a general factor of safety of 1.7 on yield stress. The absolute maximum combined stress allowable must never exceed 14 tons per square inch for mild steel with comparable stresses for high tensile steel.

Fatigue is now more satisfactorily covered in B.S.153. In the old standard it was provided for where reversal occurred

by the addition of half the minor stress to the major in members, and the whole of the minor stress was added to the major for joints. Tables are now available giving a factor K to be applied to the basic permissible stress. This factor depends on the ratio of minimum to maximum stress, the number of stress repetitions, the quality of the steel and the method of fabrication. It therefore covers the effect of fluctuation of stress without reversal. No allowance is made for fatigue in compression members.

Advances in the design of struts, trusses, plate girder flanges, webs and stiffeners affect stresses as well as other matters. These, set out in the new B.S.153, are based on first principles, recent research and consideration of the latest practice in other countries.

### Connection Method

The most radical developments in steel bridge design and practice have taken place in connection methods. High strength bolts are now frequently used. There are German and American Codes of Specifications for them, but no Standard in this country as yet, though the British Standards Institution is considering design and field practice. These bolts grip the plates tightly together, but do not completely fill the holes as fitted bolts do. They therefore do their work entirely by tension and friction, and not by shear and bearing. Numbers are normally the same as those of the rivets which would be required for the joint, but they are cheaper to install—about 25 per cent, and there are many other advantages. They require less labour, can be used in tension, are noiseless to fit, easy to tighten and do not work loose. They can be used both for assembly and for final tightening.

Present practice is therefore moving in the direction of using these bolts for site connections, while welding is increasingly used for shop work. Among developments in welding have been greater radiographic inspection in suitable cases, minimum area welds to reduce distortion, and larger electrodes. Tests for welders are laid down in B.S.2645.

Before the war small steel bridge decks were usually built of R.S.J.'s in concrete, or steel girders and jack arches. Reinforced concrete decks in association with steel girders were also used, and the main girders were sometimes cased in concrete to reduce maintenance costs. This increased dead load, and the condition of the embedded steel was not always safeguarded. Present-day practice continues the use of R.S.J.'s in concrete, using the greater range of joists and beams now available and even what are called castellated beams (i.e., with holes in the webs); and, for rather larger spans, steel girders carrying reinforced concrete decks monolithically with them. In all these cases, where provision is made for interaction between the two materials, they are treated as a composite member for purposes of calculation. There is a German specification for composite design, and steps are being taken to initiate a Code of Practice for this country.

In the past, plate girders were not much used for spans above 100ft., and continuity tended to be limited to three spans. Trusses were used for longer spans, and arches also in appropriate circumstances. A tendency, very apparent in bridges and viaducts on the German autobahn, developed before the war in the direction of extending continuity over a number of plate girder spans, fixed at one end and free at the other. This involved considerable movements over the intermediate piers, which were taken up by elastic movement of the piers or by roller bearings. It may now be said to have become

a standard practice; in many cases, however, we see a main crossing with three or five continuous spans and an approach viaduct on each side having shorter spans. Examples are the Queenhill Bridge, Worcestershire, now under construction, and the Neath Viaduct, South Wales.

Recent developments in methods of calculation and design aided by special local conditions have led to the construction of some remarkable steel continuous girder bridges in Germany.

The superstructures of these bridges have been designed as single units subject to bending and torsion from loading asymmetrically disposed transversely, and consist of a series of girders connected by diaphragms supporting a deck monolithically with them. There may be also a steel plate soffit so that the complete superstructure consists of a box. All these German bridges—of which there are four—are constructed across the Rhine and are three span continuous. Three of them have centre spans in excess of 600ft. They are quite spectacular in appearance but it is doubtful whether such large spans are economically possible in general. Special circumstances obtain on the Rhine, as very large units can be fabricated in the Ruhr and floated up the river to the particular site.

This general type—continuous with curved soffits, or with constant depth over long viaducts—has become very popular, and has largely ousted the truss bridge. This is, no doubt, largely on account of its better appearance. Truss bridges, however, are still being built for fairly large spans: An example is that at Auckland, New Zealand, with a maximum span of 800ft.

Steel arches have been built comparatively recently for spans as low as 300ft.; but are not likely to be used much for moderate spans in future. Suspension bridges, again, have been used for short spans (as at Chelsea) but are more appropriate to spans over 1,000ft.

### New Types

The development of the monolithic type of deck above described (in Germany called "orthotropic") has led to the evolution of some new and rather surprising types of bridge which derive from the self anchored suspension bridge. The best looking is probably the Nordbrücke at Düsseldorf. The main part of the bridge has three spans; the deck is carried by three parallel cables on each side supported by a pair of single pylons unbraced across the roadway. Another development is an even starker bridge about to be constructed at Hamburg, with two pylons only in the middle of the roadway and three cables fanning out in a vertical plane. It has affinities to the much larger and perhaps uglier Severn bridge at Cologne, which is asymmetrical with one pier in the river and a single pylon of inverted V-shape. It is a relief to turn from these to the Rodenkirchen suspension bridge whose span of 1,240ft. is rather beyond our range.

The deck details of these bridges are of interest. The roadway usually consists of a steel plate on which two layers of asphalt are laid: sometimes steel strips welded to the plate are employed as retainers for the asphalt. Alternatively a concrete deck on which the asphalt is laid may be cast on a supporting plate and linked to it with shear connectors. The former type is very suitable for large bridges or opening bridges which require a light deck. The most recent developments in decking include the substitution of a thin coating of resinous paste to the plate deck in place of the asphalt, and the use of open steel grids in places where the small openings in the deck do not constitute a hazard.



Where a reinforced concrete deck is associated with continuous deck girders and is to act compositely with them, bridges or viaducts have sometimes been "prestressed" in order to put the deck into initial compression by jacking down the supports after construction. This method has been used in two notable German bridges—the Werra and Wuppertal viaducts—both of which were constructed to a convex profile but afterwards jacked down to a sagging curve tangential to the falling approaches. The Wuppertal viaduct, in the Ruhr, is of novel type. It has a steel trough section internally braced, with a deck of concrete.

#### Concrete Bridges

Recent developments in the design and construction of concrete bridges have been largely in the field of prestressed concrete. Before proceeding to consider prestressed techniques it may be appropriate to review the present situation of design and construction in reinforced concrete.

In the general run of bridges reinforced concrete has now been much lessened in its application by competition from prestressed construction. For spans over 50ft. and up to 500ft. or more, prestressed concrete is now almost invariably adopted. For spans of the order of 50ft. or less reinforced concrete may still be competitive where special conditions operate; but there seems no doubt that when the element of repetition enters, such as where a number of bridges of the same size are to be built over a motorway, in-situ reinforced concrete construction even with simple and repetitive shuttering may not compete in price against precast prestressed beam units.

It is reasonable to ask whether the change in method which has largely taken place from reinforced to prestressed design is due to the inherent cheapness of the new construction which employs so much higher stresses than were earlier considered appropriate, or whether some of the fault lies in the stagnation of techniques of design in reinforced concrete. In general it is the combination of high strength concrete working to high stresses which has given impetus to prestressed construction, but there remains a certain field in which it is possible that an opportunity has been missed of advancing the application of reinforced concrete with such a combination.

In the opinion of the authors, and subject to safeguards in the drafting of regulations, reinforced concrete using high tensile deformed bars would show considerable advantages. It is envisaged that the calculations of strength would be on the basis of ultimate load theory, and that an overriding check would be applied to ensure that the crack widths occurring in service would be within safe limits when corrosion was considered. The valuable work which is incorporated in the Swedish tentative standard specifications gives a promising starting point for the development of regulations incorporating this attitude to design. Such an advance in design technique could only be made satisfactorily if every aspect of a structure in which it was to be adopted was rationally investigated and due allowance made for stress effects. For instance, specific allowances would be desirable for settlement of foundations where this would induce stresses in the deck structure.

Even though reinforced concrete bridges as such are less common in these days, secondary members in reinforced concrete are still vital parts of bridge structures. There has been a tendency to adopt prestressing as an end in itself, to be used whenever feasible, and this has given rise to a large family of bridges stressed transversely as well as longitudinally. While some of these applications are well justified it is now coming to be realised that reinforced concrete transverse members can be in many cases equally effective in action and more convenient and economical in construction.

The great developments in the design of prestressed concrete bridges have been

the result of advances in technique in a number of related fields.

First, reference must be made to the increasing body of knowledge about the fundamental properties of the materials of construction and in particular of the properties of concrete. Seen in retrospect it is rather strange and not at all easy to understand why the use of concrete under appreciable stress as a structural medium has gone on for so many years in this century without there being available really comprehensive data on its basic properties. It is only now that research workers are bringing our basic knowledge into step with the demands of current practice. Field observations on concrete structures, difficult though they are, are still required to throw light on the real behaviour of full-size structures as contrasted with the behaviour which would be inferred from laboratory experiments.

Developments in high tensile steels and knowledge of their properties have also

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greatly affected the progress of prestressed concrete. The strengths of standard grades of wires have been improved by manufacturing techniques and the long-term creep characteristics have been evaluated. The production of high tensile bar and the metallurgical techniques associated with it have advanced to a point where a satisfactory standard can be guaranteed. The newcomer among stressing tendons is high tensile wire strand. Originally developed by American wire rope manufacturers its introduction and use in this country has been stimulated by new methods of anchorage design not involving the socketing technique deriving from wire rope practice. The introduction of this new material affords an illustration of the difficulties of work in these spheres where rapid development in use outstrips basic research on the properties of the material. Only now, some time after initial production of such strands, satisfactory evidence of the magnitude of long-term creep effects in the material is becoming available.

#### Surface Finish

The greatly increased use of concrete in bridge construction has focused attention on the problem of surface finish. There is now general recognition of the need for careful consideration of finish, but some recent work in this country still compares unfavourably with corresponding practice in Germany and elsewhere.

The main types of finish available are: (a) Generally "as cast"—Under this head come various types of shuttering arrangements, e.g.—(i) plywood or other smooth finish; (ii) board marks forming a pattern; (iii) steel shutter marks forming a pattern; (iv) horizontal or vertical marking or grooves at construction joints; (v) patterned plastic shutter linings; (b) special surface treatments—(i) rubbing down from shutters to give a smooth finish; (ii) bush

hammering (iii) shot or grit blasting; (iv) scrubbing to expose aggregate (for small or precast members); (v) transferred aggregate (see below).

With exposed aggregate treatments such as those under (b) above, special aggregates and cements are sometimes used.

Some countries, e.g., Sweden, have always favoured a smooth finish, for which very good concrete is essential, and on the whole this method has been gaining ground on the Continent. Narrow board marks are effective in some circumstances—for example on the recent Ludwigshafen flyover. Elsewhere a smooth finish with rather crude and coarse grooves or rectangular panels has been used as on the Bingen Bridge. A faint indication of rectangular panels (steel shutter marks) as on the Tancarville Bridge near Le Havre, is often better.

For precast blocks and sometimes in-situ work also, transferred aggregate methods depending on the placing of special aggregate on the moulds have been developed. These, for bridges, may be best suited to large-scale work (Forth Bridge piers) where they are not seen from close quarters. Bush hammering, scrubbing and shot blasting are probably the best methods of treatment for general use, though the others may all be satisfactory in special circumstances. Quite light bush hammering or shot blasting are often most suitable as these methods should not crack or split the aggregate itself. The advantages of bush hammering is that it can give some variety to the appearance of concrete depending on the aggregate used.

(Concluded from page 714)

a solution to most of the Federation's problems in education and training, and looked forward to visiting all the regions. He paid a glowing tribute to the work done by Mr. Prosser during the past year.

Mr. Cecil R. Setter (South West) was elected to the senior vice-presidency, and Mr. Frank Russon (Birmingham) and Mr. Lawrence J. Holloway (London) were elected first and second junior vice-presidents, respectively. Mr. J. Ian Robertson (Burton-on-Trent) became honorary treasurer.

#### Medals Presentation

Before discussion on the annual report, the retiring president presented the silver and bronze medals awarded by the Federation under its prize scheme for 1959.

Mr. T. H. Huxley Turner, C.B.E., chairman of the prize scheme sub-committee, said that there was the usual high standard in the craft section, but the sub-committee were particularly gratified by the uniformly good standards in the trainee section. The difficulty in selection had led them to recommend the award of three bronze medals in this section.

The prizewinners were:

#### Craft Apprentices

Silver Medal—Joseph T. Aspinall, joiner, employed by George Platt and Sons, Ltd., Liverpool, and nominated by the Liverpool Federation.

Bronze Medal—Brian John Barber, bricklayer, employed by J. Parnell and Son, Ltd., Rugby, and nominated by the Midland Federation.

#### Building Trainees

Silver Medal—John Barker Turner, building surveyor, articulated to Ackroyd and Abbott, Sheffield, and nominated by the Yorkshire Federation.

Bronze Medals—Anthony Clark, building surveyor, articulated to M. Clark, Retford, and nominated by the Midland Federation; Kenneth R. Moss, surveyor/estimator, articulated to A. Roberts and Co., Ltd., London, and nominated by the Southern Counties Federation; Brian Martin Hall, building surveyor, articulated to J. Jarvis and Sons, Ltd., London, and nominated by the London Master Builders Association.

Mr. Kenneth Moss is now in Trinidad and his medal was accepted on his behalf by his father.

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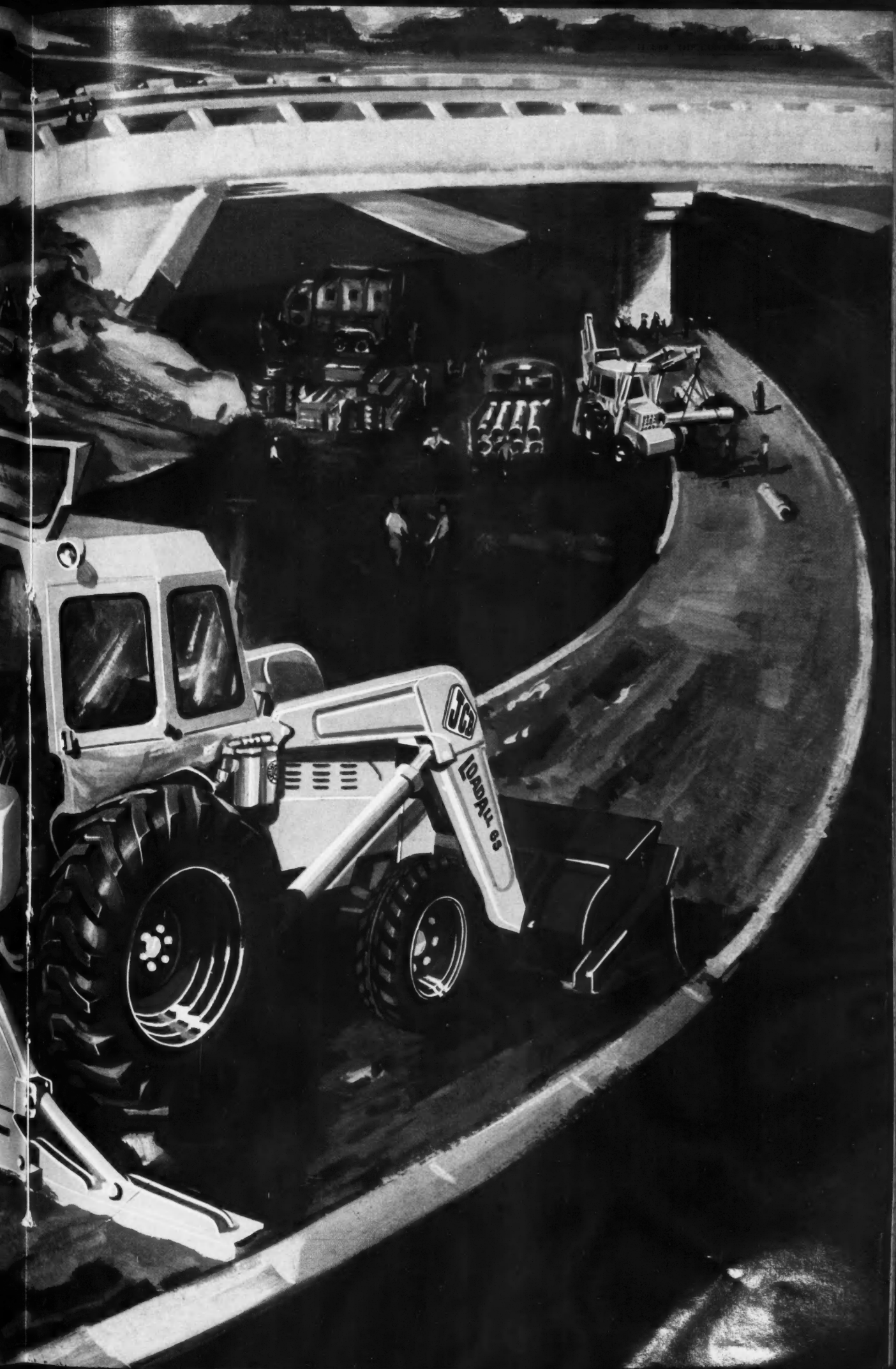
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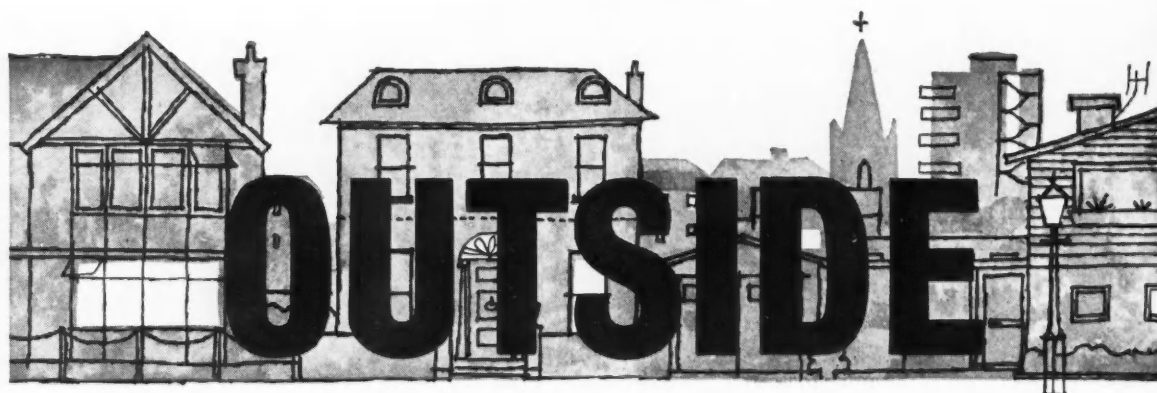








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# John Sumner's Notebook . . .

NOT so long ago there was a distinct move being made by certain industrialists to get the Government to finance apprenticeship to the extent of employers being allowed tax relief from the cost of training under orthodox schemes. I seem to remember Sir Godfrey Ince saying, as president of the British Association for Commercial and Industrial Education, that if the Government was serious about the vital necessity to increase training during the years that young persons are available it seemed a small price to pay . . . to provide an incentive in the form of additional tax relief.

On the face of it this seems to be a good idea. It would certainly remove from the mouths of many employers the complaint that engaging apprentices is an expensive business which they can ill-afford. More long-headed employers, however, see a major danger in such an arrangement. It would give the Government a stake in industry which it would be difficult to remove. Once that stake was established it wouldn't be long before Government departments would be telling industry not only how many recruits were to be trained but how, where and in what subjects. It might well be that rates of pay would become a matter for departmental decision, and that would be the beginning of the end of wage bargaining as we know it in industry today. Imagine what would happen. Whitehall would get worried about the intake of building apprentices and inform the industry that another 3d. or so per hour might be a sufficient inducement to school-leavers. The industry would refuse to accept the suggestion—but only so long as the tax relief operated; it would have to agree in the end. Enter Sir Richard Coppock and his merry men: "Three-pence for the apprentices—jolly good idea. Now what about my craftsmen. I think they should have three-pence, too." And who would be able to argue?

No, as things are at present, training for industry is management's responsibility—financially and educationally.

THERE is an idea, though, that might well be worth looking into. It is contained in a book\* just published, by Dr. Kate Liepmann. The author believes that the system of apprenticeship, as it exists today, is so at odds with the national interest that the roles of employers and technical colleges should be reversed. Industry would then no longer decide, as it does today on an ad hoc basis, the number of apprentices to be engaged nor have the responsibility for training them. These views are largely based on a detailed study of apprenticeship arrangements in engineering, printing and building firms in the West Country. The general conclusion Dr. Liepmann reaches is that the state must take "the prime responsibility for training for industry both in its quantitative and its qualitative aspects." She sees a situation where both practical and theoretical full-time education would be given at technical colleges with part-time release to the works and building sites. Training time would generally be curtailed.

This book is well worth the attention of those interested in or concerned with training for industry, for it tackles a controversial subject in an objective and dispassionate way. There is, as I see it, one big snag to Dr. Liepmann's theory, though. Builders, to take but one section of industry, already know the average

academic quality of those who leave school and seek an apprenticeship. It isn't very high. It's only after a year, or maybe two with some, that they begin to brighten up their ideas. Many never do and drift away. If full time technical education at the colleges could achieve in, say, three years, what the primary and secondary schools have been unable to achieve in 11 all would be well. My guess is that many builders will say that there isn't even a remote chance of it doing so. They would like to be proved wrong.

THERE is no knowing what some local authorities will be up to next in the housing business. Hartlepool Town Council is to build 30 houses for sale to the public. The minimum deposit will be £5 and prices will be from £1,800 to £2,200, according to type and size. With a deposit of £5, weekly repayments on a £1,800 house will be £2 4s. 8d. for 30 years.

Of course, Hartlepool has its housing problems and Mr. L. O. Williams, the Town Clerk, has pointed out that only people living in Hartlepool, who can show a housing need, will be qualified to buy the houses. The only exception will be the Hartlepool Council house tenant, who, by buying a house will leave a Council house vacant for someone on the Council's waiting list. This is fair enough.

The money to be lent to purchasers, however, will be charged for at the rate of 5 per cent.—a lower rate of interest than that which the Council will pay to borrow it. Who pays for this hidden subsidy? If I were biased in these matters I would expect to learn soon that Council house rents in Hartlepool are going up so that tenants can help pay for the houses they can't afford to buy themselves. Perhaps Mr. Williams can tell me who will pay the subsidy?

THIS year's President of the Southern Counties Federation of Building Trades Employers, Mr. J. B. Ratcliffe brings that office nearer to London than it has been for many years. His local association of Caterham borders on the L.M.B.A. southern frontier. Mr. Ratcliffe's building interests, however, are widely dispersed over his region, for his housing estates are known in Kent, Sussex and Surrey. He is no ordinary house-builder either, as those who attended last autumn's 'House-Builders' conference in London quickly discovered. His talk on the housing market and selling techniques proved to be one of the most absorbing expositions of the subject it has ever been my pleasure to hear. He went into some detail, too, for he gave the information that in his firm an inquiry from a customer costs between 10s. and £1 in advertising, while each sale costs between £7 and £12 under the same heading. In all, he reckons that 67 per cent. of his sales result from paid-for advertising, unidentified contacts 11 per cent., sales boards six per cent. and introductions through past customers eight per cent. Of course, Mr. Ratcliffe had a number of other interesting things to say and I was left wondering how many other house-building concerns have so tight a grip on their activities as he seems to have on his. To personal charm, ability to speak and a wide knowledge of the industry, Mr. Ratcliffe adds the quality of being able to find time for details. These attributes should stand him in good stead during his year of office in the Southern Counties Region where, probably more than anywhere else, ability to do the job is the first essential requirement for anyone wishing to hold office.

I SEE that the price of Portland Cement has been reduced by 2s. a ton in all areas of Great Britain and Northern Ireland. The Cement Makers' Federation say that in spite of a recent increase in wages it has been possible to make this reduction in anticipation of a continuing increase in output and demand. This puzzles me a little, for while everyone will be glad to learn of this move resulting from a progressive policy on the part of the cement makers, there remains the question of brick prices. Presumably it can be argued that if one group of manufacturers responsible for an important building material can bring their prices down, then it should be possible for others to do the same. So far all the information I have suggests that bricks are going or will go up in price. Perhaps the manufacturers will consider paying a visit to their colleagues in the cement industry to find out the secret of their success.

MY comments a fortnight ago on the considerations borne in mind by the representatives of building societies in assessing the loan-worthiness of houses has drawn fire from the *Building Societies Gazette*. The *Observer* says that *The Gazette's* reply is directed to "exponents of contemporary architecture who have tended to blame building societies for being reluctant to offer adequate mortgage facilities for non-traditional houses." That is rather a nice way of putting it. There are, according to *The Gazette*, only a small minority of the general public, by whom market values are determined, who are as yet convinced of the advances of non-traditional housing. From this *The Gazette* seems to conclude that it is difficult to believe that the "goldfish bowl" type of house will ever become really popular.

Who was talking about "goldfish bowls?" I wasn't. I still say that those charged with the responsibility of determining the loan-worthiness of houses are still too ready to think of the mock Tudor and olde worlde styles of the inter-war years as being "safe" for investment. If more house-builders could be encouraged in the right way by the building societies there would soon be little to worry about regarding the aesthetic appearance of the new houses and estates going up.

LONDON had another film premiere last week, but this time with a difference—there were no gaping crowds and no glamorous actresses. Instead, something like 120 engineers were the guests of Richard Costain, Ltd., at the first public showing of a new film "Federal Highway" which records the recent B.R.F. organised visit of British engineers to see the latest developments on West German roads. Filming such a subject in the limited time available was no easy task, and the Costain Film Unit are to be congratulated on a fine achievement.

## E.J.M.A. MEMBERS MEET IN MANCHESTER

The first of a series of informal meetings to discuss current matters affecting the English joinery industry, was held recently in Manchester. The meeting was arranged by the English Joinery Manufacturers Association, and in addition to Mr. W. R. Price and Mr. Peter Allnatt (president and director of the Association) members attended representing firms from Lancashire, Cheshire and Denbighshire.

Among the items discussed were the grading of Swedish redwood, the use of joinery specifications in architects' bills of quantities, and the intake of apprentices into the industry.

The question of competition from the Outer Seven countries also arose and it was explained that the Association was watching closely the interests of its members with regard to actual or potential competition from the countries concerned.

\*"Apprenticeship: An Enquiry into the Adequacy under Modern Conditions," by Dr. Kate Liepmann. Published by Routledge and Kegan Paul. Price £1 3s.



## MORE WORK BUT MUCH RUN AT LOSS, SAYS SOUTHERN FEDERATION PRESIDENT

**S**PEAKING at the annual luncheon of the Southern Counties Federation of Building Trades Employers, held recently in London, Mr. J. B. Ratcliffe, D.S.O., president, said that as incredible as it seemed the situation had now been reached where in spite of the fact that there was more work about than ever before much of it was being run at a loss.

He was referring to work in the £30,000 and above category obtained in open tendering and said the lowest tenderer was not making ends meet in many cases. Often he was exchanging £1 of his money for his customer's promise to pay him 19s. 6d. In a number of firms estimating had been related not to costs but to getting just under the market price. There was a lot of tendering where the estimators did not even hear whether a job made money or a loss, let alone felt responsible. Their only responsibility and test of efficiency was to see that their price was lower than the others by half per cent. or so. When some price levels were set in this way was it any wonder that they became economic?

The most efficient firms had been the first to become positive of the unrealistic nature of current open tenders in the £30,000 and above category. As a federation they were deeply concerned with this situation in so far as this was not in the interests of the general public. It was not to the advantage of the building owner or the public that prices should be below the economic level at which the industry could maintain its efficiency and development.

### Advice to Members

Forecasting considerably more contract work in 1960, the President said they must be sure that any tenders put in, particularly during the next few months were correctly related to costs.

"Weigh carefully too the pitfalls of competing for work where the number of tenderers exceeds the number recommended in the Howard Robertson report and later jointly agreed between us and the architects as being proper and reasonable," he continued. "You'll find those numbers recommended in the Federation's code of tendering procedure. Keep your best prices for the jobs that you know are fully pre-

planned. Unless you have all the information well before you start there are more likely than not to be costly delays. Remember wasted time becomes more and more costly the more mechanised and highly supervised the builder makes his organisation in the interests of lowering costs. I am sure our companies don't pay us to glut them up now with unprofitable jobs."

### Annual Report

The annual general meeting of the Federation preceded the luncheon at which members considered the annual report of the Council for 1959. In spite of the apparently clear skies of prosperity, one or two threatening clouds remain, states the report. There is no clear policy statement that the Government will not, at some time in the future, use the industry as a means to an end. Whilst this uncertainty remains complete confidence in the future is impossible and forward planning and long-term development is made unnecessarily difficult.

While the industry as a whole is fully engaged with work and with every expectation that this situation will continue for some time to come, it remains a lamentable fact that the general level of tender prices is not providing margins commensurate with those of other industries whereby an adequate allocation of resources to the vital needs of development, research, education and training can be effected.

This touches the roots of our industrial framework and colours every aspect of our activities. It affects the attitude of our members not only to the basic services rendered by the Federation to the building industry but to the more specialised and advanced techniques of development exemplified by such organisations as the Building Advisory Service, the machinery of joint consultation in almost every field and the Southern Counties Building Education Trust.

### Support for J.C.C.

The Council will continue to give unqualified support to the work of the Joint Consultative Committee of Architects, Quantity Surveyors and Builders as the focal point in maintaining proper standards of contract and tendering procedures, the report continues. It is appreciated that

members of the professions are frequently subjected to severe pressure by clients who are oblivious to the technical requirements of contract procedure and in such cases the contractor members of the building team can give powerful support to their professional colleagues even on occasions when their firmness may not, in the short term aspect, be entirely appreciated!

### Training

The Council urges all members actively to support the various schemes devised for the training of future personnel at all levels. The only means of matching the apparently conflicting objectives of stable or lower prices with greater rewards and increased margins lies in improving operative and administrative efficiency, this being the only means by which this paradox may be resolved.

Every single member firm can play its part in this movement, from the individual employer personally training his single apprentice, to the largest firms with their full range of craft apprentices coupled with the employment of article and registered student-pupils in administrative and site offices.

Members will be aware of the intense pressure for the better training of youth that is still developing throughout the whole country, indeed the whole world. There is a serious danger that this may result in the enforcement of state-operated schemes with all the accompanying rigidity and formality. The only protection against such a movement can be the active support of the individual for the voluntary schemes which the Federation has devised.

### Operatives and New Techniques

The Council has noted with interest the special conference convened by the National Federation of Building Trades Operatives early in the year to discuss the effect of new materials and techniques upon our industrial agreements. Whilst welcoming the realistic attitude displayed by the operatives towards many of our problems it is felt that there is a long way to go before these deliberations reach a practical conclusion. In the meantime the employers have their own contribution to make and throughout the year the Council Wages and Conditions Committee and a special Sub-Committee have been earnestly considering the numerous suggestions which have been put forward. Concrete suggestions have been submitted to the National Federation and it is hoped that these will be accepted as a basis for joint discussion by the National Joint Council.

## FORMIDABLE TASK FACES HIGHWAY ENGINEERS

**W**RITING in the *Journal* of the Institution of Highway Engineers, the president, Mr. James Drake, says:

"1960 will, I am sure, see the Government and all sections of the public, convinced of the necessity for a greatly expanded Highway Programme and showing a determination to see that the money is available to carry it out. This is going to present us all with a formidable and exacting task, but I am in no doubt that the members of the Institution will face up to it and accept the challenge gladly and enthusiastically."

"New techniques in design and construction will be required, with the stepping up and modernisation of our operational and administrative systems to the highest level of efficiency. Quick decisions on important and difficult questions will be necessary and some mistakes will inevitably be made; remember, however, when you do run into trouble, the old Lancashire saying—'t'mon who ne'er med a mistake, ne'er med owt.'"

"There will be sleepless nights; the ability to improvise will be taxed to the limit and responsibility will be greater than ever before."

"You will, nevertheless, have your compensation; if not in commensurate salary,

in the privilege and honour of being actively engaged in working for a solution of one of the greatest national problems of our time."

"Many of our older members will have the pleasure of carrying out schemes for which they have pressed for many years—in some cases for so long that they had begun to despair. There will also be younger members who, for the first time, will have the privilege of being responsible for a really big road or bridge scheme."

"Life is going to be hard, but exciting, and I trust that, at the end of 1960, you will all be able to look back on a year of adventure, achievement and satisfaction."

### NEW DURBAN REFINERY

The approval of the South African Parliament is being sought to the development of a site at Reunion Docks, near Durban, by the construction of an oil refinery at a cost of £25½m. The scheme will be carried out jointly by the Shell Group and the BP Group. It is hoped that the refinery with a capacity of some 3,000,000 tons a year, will be in operation by 1963.

## MORE SCOTS PAINT—MORE JOBS

### S.A.P.M. President's Plea

Making a plea for much wider use by industry, local authorities and the general public of paint made in Scotland, Mr. Alexander Cameron, president of the newly formed Scottish Association of Paint Manufacturers said in Glasgow recently that if all the paint used in Scotland was made in Scotland the industry could provide up to 2,000 more jobs.

He thought most Scots would be disturbed by the fact that less than half the paint consumed in Scotland was produced in the country, though the industry had the immediate capacity to produce half as much again and could produce all the 13,000,000 gallons needed each year.

The total number employed in the industry was between 1,750 and 2,000 workers. Were the industry to provide the whole of Scotland's requirements, it would be possible to double those figures.

Among the larger users of paint were local authorities, but it was an ironic fact, said Mr. Cameron, that some of the Scottish areas which complained most bitterly about unemployment were also those which made least use of paint produced within the country.

## CANADIANS' IMPRESSIONS OF BRITISH CONCRETE CONSTRUCTION TECHNIQUES

### Basic Problems Similar in Both Countries

**H**OW the latest aspects of British concrete design and construction compare with those in Canada were discussed in London last week by members of the Canadian party of engineers and architects who have been on a study tour of this country during the past three weeks.

The leader of the party, Mr. Joseph Boux, president and general manager of Supercrete, Ltd., Winnipeg, said that in the precast concrete field he had observed a large variety of roof and floor systems which were basically similar; whereas in Canada they tended to standardise on the best systems and improve them into a wider usage.

The general acceptance and wider usage of precast and prestressed concrete in the United Kingdom was probably the reason for the larger number of systems available. One of the main reasons to which he attributed this trend was the excellent practical research and training facilities made available to the professional architects and engineers, manufacturers and the trades by the Cement and Concrete Association. No comparable facilities were available to the concrete industry as a whole, in either Canada or the United States.

The development of transit mix concrete was more advanced in Canada and the United States than in the United Kingdom. This might be attributed to a greater road congestion in this country, but he felt that the main obstacle was the resistance to change of existing construction practices, rather than physical obstacles. Probably, the principal reason for the more advanced development of ready mix concrete in Canada had been the necessity for developing winter construction techniques to a larger degree than required in the United Kingdom.

Speaking generally of concrete finishes and the manufacture of precast and prestressed concrete products, Mr. Boux said that the Canadian standards of quality were somewhat higher. "This is not intended as a criticism, but more as an expression of surprise, in that the craftsmen of the British construction industry have always enjoyed an excellent reputation. Along these lines, it appears that the problem of basic productivity and quality of labour is very similar in both our countries."

#### More Advanced

Another speaker was Mr. W. D. Hurst, B.Sc.(C.E.), P.Eng., M.E.I.C., city engineer and commissioner of buildings, Winnipeg, who stated that the British construction industry was more advanced in precast and prestressed concrete construction than its counterpart in Canada, although first impression led him to believe that the capital costs of building in the U.K. were unduly high taking into account the relative purchasing power of the dollar and the pound.

In so far as architectural work was concerned, he had been greatly impressed by the willingness to experiment using new design concepts and new materials, particularly in school construction. New schools were not only well planned, but exceedingly attractive.

The work on housing developments car-

ried out by the London County Council was very impressive and appeared to provide excellent housing accommodation by British standards. It was difficult to reconcile these standards with those being demanded in Canada, where considerably larger rooms were insisted upon, as well as better facilities for heating, cooking, washing, refrigeration of food and sanitary accommodations.



Mr. Boux (left) with other members of the party during their visit to the Cement and Concrete Association's research station at Wexham Springs

One matter that was not being given enough serious attention was the consideration of motor vehicle traffic (roadway capacity) and off-street parking. In Canada and the United States following the war there had been a phenomenal increase in motor vehicle ownership—a two to threefold increase on top of an already large car ownership. In many localities

the two cars to a family concept gave way to three even four cars to a family.

"It will be immediately appreciated what this increase did in respect to highway capacities and vehicle storage facilities," said Mr. Hurst. "Many British engineers agree with us, that if the economic picture remains rosy a similar phenomenon is possible in the U.K. If this is so a great deal more attention will have to be given to this problem."

#### Keener Competition

Giving their impressions, Mr. K. R. Snider, B.Arch., M.Arch., M.A.A., M.R.A.I.C., and Mr. L. Bookbinder, B.Sc., P.Eng., of Waisman-Ross and Associates, Manitoba, stated that the Canadian industry had keener competition among the various structural materials available, wood and flu-lam, rolled steel, cast in-situ, precast and prestressed concrete.

Because of the development simultaneously in Canada of all these materials there had been no concerted effort on the whole of the construction industry to date to explore the design possibilities, and in particular the application of precast and prestressed concrete to buildings as had been the case in Britain. On the other hand the Canadian architect appeared to have greater design scope with the variety of comparable structural materials that were readily available.

It also appeared that the Canadian architect spent a great deal more of his time in co-ordinating the mechanical, electrical and structural systems of his buildings than did his British counterpart. This was due partly to climatic conditions and partly to the influence of American technology.

The Portland Cement Association in Canada did not provide as close co-operation with consulting engineers as the British Association. British consultants received more assistance from the standpoint of scale model studies tests of beams and other parts of structures, along with other solutions to problems with which in general the consulting engineer did not have the facilities or time to study.

Prestressed precast concrete seemed further advanced in England than in Canada from the standpoint of using space frames, multi-storey buildings and more varied use of small prefabricated structural units.

Design methods involving new theories, model studies, computer analysis, etc., seemed to be used more and be further advanced in Britain.

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Inspection of the Research Station's surface finish display area

## SHELL CENTRE SITE DISPUTE

### Investigation Committee's Report

**T**HE Minister of Labour has now received the report of the Committee of Investigation which he appointed to inquire into the electricians' dispute at the Shell Centre site, South Bank, London, S.E.1. The committee finds that it is unable to recommend any extra payment to the men on strike.

Comprising Mr. Roy M. Wilson, Q.C., chairman, Mr. D. K. Rollit, O.B.E., and Mr. W. D. Goss, O.B.E., the committee was set up to inquire into the causes and circumstances of the dispute between the employers' and workers' sides of the Electrical Contracting Industry National Joint Industrial Council concerning the terms and conditions of employment of members of the Electrical Trades Union employed by F. H. Wheeler and Co., Ltd., at the Shell site.

In the conclusions to its report, the committee states that the men at the site were being paid in accordance with a freely negotiated National Agreement. Any recommendation which would be incompatible with that agreement could only have the most serious effects upon the agreement, the more especially because the Shell Centre site could not be considered in isolation. The committee feels that such agreements should be upheld, and that therefore Messrs. Wheeler's employees should not receive any extra payments until and unless the agreement is altered to provide for such payments.

On the other hand, the committee recognises that a real human problem does arise when one set of workers, who cannot be put on a payment-by-results scheme, find themselves working alongside others who are earning extra money in this way. The fact that the standard wage rate for a journeyman electrician is higher than that of a building trade craftsman, and that the weekly pay packet is on the average higher in the electrical contracting industry than in the building industry, does not remove the problem. Nor does the fact that the problem is largely psychological make it any the less real.

The committee recommends that the N.J.I.C. should, as a matter of urgency, review Clause 8 of the National Agreement, with a view to its alteration so as to permit of extra payments in certain exceptional circumstances. The Committee does not accept that electricians should receive extra payments simply because building trade operatives are being paid extra money, nor that the amount of any extra payments which might exceptionally be authorised for electricians should be related to the amount of extra payments being made to building trade operatives on any particular site.

#### More Logical Approach

The committee thinks that a more logical approach to the alteration of Clause 8 should start from the fact that it has hitherto proved impossible to devise a payment-by-results scheme for the industry. Since that is so, the committee is of opinion that where electricians are working on sites where a majority of the building trade operatives are being paid under a payment-by-results scheme, on a measured work basis, and the tempo of the work (including that of electricians) is consequently increased, there is much to be said for electricians being given some extra payment to offset, to some extent, the fact that no payment-by-results scheme is possible in their case.

The amount of the extra payment should, it is suggested, be fixed by the N.J.I.C. and should be applicable to all sites where the requisite conditions are satisfied, thus minimising the difficulties of contractors in tendering for fixed-price contracts. The amount of the extra payment should not

be such as to cause too much inequality between those electricians who happen to be employed on sites where the requisite conditions apply and those who do not.

The Committee further recommends that, to meet future cases of disagreement in the N.J.I.C., an arbitration clause should be added to the industry's negotiating procedures.

Since Messrs. Wheeler's electricians cannot, in the Committee's view, be granted any extra payments until and unless the National Agreement is altered, it is recommended that they should return to work without delay, thus enabling the urgent discussions in the N.J.I.C. to take place in an atmosphere of goodwill on both sides.

### MIDLANDS CONTRACTORS PLANT ENGINEERS' DINNER

A very successful first annual dinner and dance was held on Friday evening at the Chesford Grange Hotel, Kenilworth, by the Midlands branch of the Contractors Mechanical Plant Engineers, some 230 members and guests being present.

Proposing the toast, "The Midlands Branch," Mr. Lawrence McCarthy, editor of *The Contract Journal*, said that since its formation in June of last year membership of the branch had grown to something like 130 which was no mean achievement. The branch had been formed during an impressive year for the construction industry. There had for example been the completion and opening of the London-Birmingham Motorway—a scheme of which the construction industry could be justifiably proud. He sometimes wondered however whether the plant managers and mechanics who kept the great plant fleet operating received the credit that was due. Somehow, he didn't think they did.

Referring to the recent visit to Europe and America by Mr. Ernest Marples, Minister of Transport, Mr. McCarthy said that if the Minister had only made inquiries in the right quarters in this country he doubted very much whether the Minister's journey would have been necessary. He feared that the Ministry might become so obsessed with "pink zones" and other restrictions that they would forget to build the roads which were still so badly needed. It seemed to him the essence of bad planning that the London-Yorkshire Motorway should now be halted with no chance of further construction being undertaken for some time.

The growth of the Contractors Mechanical Plant Engineers had been quite remarkable, he said. Wishing them well for the future he expressed the hope that they would not widen their membership to such an extent as to lose their identity.

#### C.M.P.E. Growth

Responding, Mr. R. Russell, chairman of the Executive Council, thanked Mr. McCarthy for the advice and assistance he had given the Association since its formation. Membership had grown from ten to nearly 500 in under four years and a national executive council had now been formed. A competition in which members were invited to submit a written paper on "The Application of Mechanical Plant to the Construction of Modern Roadways" was being promoted by the executive council.

The toast of "The Guests" was ably proposed by Mr. N. A. Soper, chairman of the Midland branch, Mr. P. Barratt, managing director, Saville (Tractors), Ltd., responding.

The Duke of Edinburgh is to visit the Hounslow factory of Concrete, Ltd., on March 16.

## Late Construction News

**LAING MOTORWAY CONTRACT?**—According to an unconfirmed report, John Laing and Son, Ltd., are to be awarded a contract for the construction of 28 miles of the Bristol-Birmingham Motorway, including 63 bridges of various spans in prestressed and reinforced concrete and in steel. Tenders were invited by Worcestershire C.C. (*Contract Journal* Oct. 22, 1959).

**ST. PANCRA'S HOUSING.**—Subject to Ministry approval, St. Pancras B.C. are to award two large housing contracts to M. J. Gleeson (Contractors), Ltd. One is for the erection of 164 dwellings at Gospel Oak redevelopment (area 2) Lamble Street extension, and the other for 61 dwellings at Castle Road. The cost of the schemes is £459,204 and £136,966, respectively.

**STEEL COMPANY'S EXPANSION.**—The Steel Company of Wales have announced that orders worth £4.6m. have been placed for carrying out their expansion programme. The main foundation work has been let to Sir Robert McAlpine and Son, Ltd., at a cost of £2.1m. W. S. Atkins and Partners, 158 Victoria Street, London, S.W.1, are the consulting engineers.

**LIVERPOOL OFFICES.**—H. Fairweather and Co., Ltd., Hyde Works, St. James's Lane, London, N.10, have been awarded the contract for erection of a new office block on the corner of Water Street and Drury Lane, Liverpool, for The Commercial Union Assurance Co., Ltd. The building is estimated to cost about £200,000/£300,000. Plans are by Daniel Watney, Eiloart, Inman and Nunn, The Charterhouse, Charterhouse Square, London, E.C.1, and quantities by G. D. Walford and Partners, 7 St. James's Street, London, S.W.1. The consultants are R. Travers Morgan and Partners, 60 Aldermanbury, London, E.C.2, and K. W. Dale and Partners, 9a Sackville Street, London, W.1.

**GRANTHAM BY-PASS.**—The Minister of Transport has announced that work will start shortly on the construction of Grantham By-pass. The contract, as reported on Dec. 3 last, has been placed with Robert McGregor and Sons, Ltd., Manchester, whose tender was £1,856,009.

### BIRMINGHAM-PRESTON MOTORWAY

Early next month tenders will be invited for several contracts in connection with the Birmingham-Preston Motorway. As officially announced elsewhere in this issue, two Lancashire County Council contracts are involved—the construction of 11.30 miles of motorway from Woolston to Winstanley and 14.81 miles from Winstanley Park to Preston By-pass.

The third contract will be Contract Section A—Dunston to Whitgreave, for which bids will be invited by Staffordshire County Council. This involves seven miles of motorway and 0.7 miles of link road forming a by-pass of Stafford (the project is described in an article on page 723).

### £748,000 GREAT NORTH ROAD CONTRACT

A contract valued at £748,000 has been placed with George Wimpey and Co., Ltd., for the construction of a second carriage-way on the Great North Road between Redhouse and Wentbridge.

### MARTIN COWLEY'S PARTY

Following their establishment last year of a London office, a champagne party was held recently by Martin Cowley, Ltd., at which executives from the company's northern and southern divisions were present. Guests, who included a number of people professionally concerned with civil engineering contracting, were welcomed by Mr. Martin Cowley, chairman and managing director.



## 18-STOREY STUDENTS' BLOCK AT FINSBURY

### L.C.C. Approve £1m. Project

**T**HE largest hall of residence for students to be erected in this country is planned on a 2½-acre site at the junction of Bunhill Row and Chiswell Street, Finsbury, London, E.C.1.

At their meeting recently the L.C.C. Education Committee approved a scheme for the development of the site by the erection of an 18-storey block for 500 students of Northampton College of Advanced Technology and a new technical college.

The floors of the residential block will be divided into flats, each accommodating 12 students, with its own entrance door, utility room, bath-room, shower, etc. The roof will have grassed and paved areas for students and a flat for the warden. Other staff will live on the seventh floor.

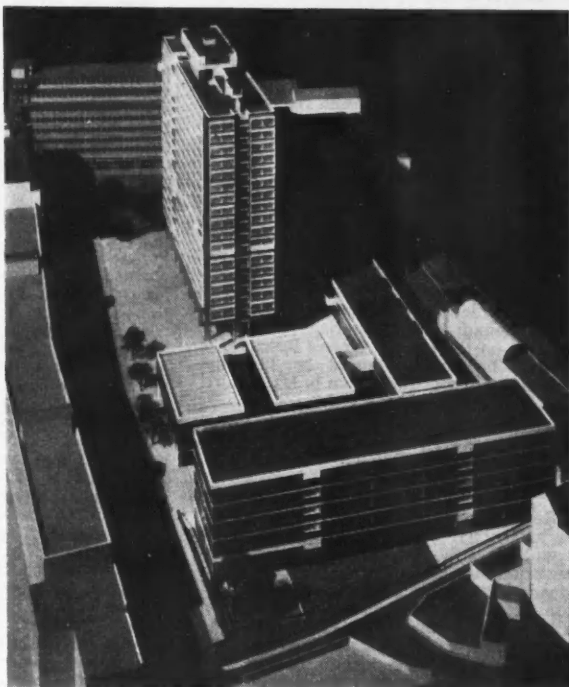
The site will be paved and enclosed on two sides by the new college. The hostel will be built within this square and raised on columns so that no study bedrooms are overlooked and a clear space is left at ground level. Students will use bridges to cross the square and move between the college buildings. The principal rooms in both the hostel and college are planned at the level of the bridges. In this way the circulation of students and the public are entirely separated.

The college is organised into departments in the plan, which include courses for dispensing opticians and engineers. A second block has two gymnasias, built one above the other, an assembly hall equipped for teaching drama and a youth employment bureau. Overlooking the whole length of the west side of the square a two-storey block will provide separate dining rooms for the college and the hall of residence.

A proposal that instruments for record-

ing stresses and pressure-distribution should be incorporated into the foundations and sub-soil of the building, to enable students taking civil and structural engineering courses to record observations as part of their training, is at present under consideration. The results of their work are expected to make an important contribution to existing knowledge of soil mechanics under high buildings.

The estimated cost of the hall of resi-



Model of the hall of residence and new technical college

dence is £591,785, and of the technical college £422,370. Furniture and equipment for the hall of residence will cost about £57,000 and for the technical college £48,000. Technical equipment for the college will cost a further £20,000.

The designers of the scheme are: Architect to the Council, Hubert Bennett, F.R.I.B.A.; deputy architect, F. G. West, A.R.I.B.A.; schools architect, Michael Powers, B.A.(Cantab.), A.R.I.B.A., B.A.Dipl.; assistant schools architect, G. F. Horsfall, M.B.E., B.Arch., A.R.I.B.A., and group leader, P. K. Nicoll, A.R.I.B.A.

## NATIONAL CONTRACTORS GROUP

### J.C.C. Looks at its Activities

**R**EPRESENTATIVES of the National Contractors Group of the London Master Builders Association recently attended a meeting of the Joint Consultative Committee of Architects, Surveyors and Builders to give details of the Group's activities. The J.C.C. had felt that it would be in the interests of all concerned that these activities should be made completely clear.

The J.C.C. was told that the Group was established some two years ago as part of the general reorganisation of the L.M.B.A. and is a section of that Association. It concerned itself in particular with the interests and problems common to national contractors who, as opposed to those operating in a particular locality, carried out contracts throughout the United Kingdom and abroad.

The main reason behind the formation of the Group was to encourage the larger contractor to take a greater interest in the affairs of the L.M.B.A. and in the National Federation of Building Trades Employers. In the past, although they had been subscribing members, not all of them had been active and it was felt that if they were brought together in their own group where they could deal with the many matters common to the larger firms then this interest would be stimulated. This had in fact proved to be the case.

### Tackling Contract Problems

It was clearly one of the functions of the Group to safeguard the interests of member firms against the imposition of unfair contract conditions, and to see that the member firms were fully aware of the legal implications of any alterations or additions that might be made to the Standard Form of Contract or tendering procedure. In this they were not breaking fresh ground but merely following the course of action which had been taken by the L.M.B.A. and indeed by all regions of the N.F.B.T.E. for many years. It was the permanent staff of the Group and the L.M.B.A. who dealt with such contract matters and where necessary with any other region which might be involved. In all cases these matters were in the first instance taken up with the architects and quantity surveyors concerned and this usually resulted in a satisfactory adjustment and, therefore, no further action was necessary.

In the few cases where agreement could not be reached, members were advised to qualify their tender and a draft qualification was issued to them by the L.M.B.A. It was emphasised that the foregoing steps were only necessary when the architect or quantity surveyor proposed departures from the agreed conditions of contract or the tendering procedure recognised within the industry. When the agreed and recognised practices were followed, obviously no reports were made by members and no action by the Group was necessary.

### Other Activities

This was, however, only a small part of the Group's activities; since their formation they had been very active in the encouragement of apprenticeship, education and training, accident prevention, technical information, labour relations and research. By bringing the larger contractors together it was hoped that many problems which had affected tendering and contract procedure would be solved to the benefit of the industry as a whole.

## QATAR CONTRACT

A contract has recently been obtained by Semtex, Ltd., to instal 1,800 sq. yd. of Vinylex tiles in the palace of the Ruler of Qatar on the Persian Gulf.

## INSTITUTION OF STRUCTURAL ENGINEERS

The following candidates were elected to membership of the Institution of Structural Engineers on January 28, 1960:

### Students

J. Breebaart, 1092 Pretorius Street, Hatfield, Pretoria, South Africa; P. Clements, 13 Birchdale Road, Hengrove, Bristol, 4; J. Exton, Hilt's Cottage, Crich, near Matlock; J. P. Grafton, 47 Market Street, Brighton, 1; S. P. Gupta, 24b Mohini Mohon Road, Calcutta, 20, India; B. Hull, Embden Street Post Office, Manchester, 15; D. Kraling, 181b Hampton Road, Twickenham, Middx.; D. A. Morton, 277 Trichardt Road, Parkdene, Boksburg, South Africa; Ng Sai-wah, 18 Gordon Avenue, Holmercroft, Stafford; O. R. Ogundehin, 41 Osholake Street, Ebute Metta, Lagos, Nigeria; S. S. Patel, At and Post Langhnaj, Dist. Mehsana, via Ambliyasana, North Gujarat, India; C. Pritchard, 18 East Liberty, Greetwell Road, Lincoln.

### Graduates

M. J. Ballentyne, C/o Orient Lane, G.P.O. Box 545, Sydney, New South Wales; R. Bishop, 20 Pettits Lane, Romford; A. K. Chaudhuri, 8 Burnbank Terrace, Top Floor, Glasgow, N.W.; H. B. M. Eid, Department of Building, Technical Institute, Khartoum, Sudan; A. I. Hussain, 77 Wyatt Park Road, Streatham Hill, London, S.W.2; D. C. Hynd, 41 Windmillhill Street, Motherwell; J. W. Jones, 31 Old Park View, Enfield; T. Kar Wu, 1 Lau Sin Street, 3rd Floor, Hong Kong; S. A. Osobamiro, 13 Belvedere Road, Darlington; A. Pountney, 8 Park Lane West, Tipton; R. N. Price, 11 Summers Avenue, Bootle, 20; P. Quigley, 6 Portland Road, Longsight, Manchester, 13; R. Wayment, 38 Warland Road, Plumstead, London, S.E.18; B. R. Wilde, The Bungalow, Ashton Road, Golborne, near Warrington.

### Member

C. T. A. Byers, 83 Elwill Way, Beckenham.

**In Parliament****MR. MARPLES QUESTIONED ABOUT HIS VISITS TO THE CONTINENT AND U.S.**

**F**OLLOWING his recent visits to the Continent and the United States, the Minister of Transport was asked by Mr. J. Grimond, in the House last week, what progress he had made in his study of bridge-building methods, and whether he would make a statement on the methods to be employed on future road development.

Replying, Mr. Ernest Marples said that his visit to the Continent had been primarily to see for himself the methods being adopted in Europe to utilise the latest techniques of bridge design and construction. The visit had satisfied him that British design and construction matched work being done elsewhere.

It might not therefore be necessary to make radical changes in present arrangements, he added, but to ensure that full advantage was taken of the latest ideas and techniques he was continuing to study whether it was desirable to try out new arrangements experimentally. In any case, he intended that the partnership between the Ministry, bridge designers and bridge builders should be made as close as possible.

Mr. Marples said that in the United States he had examined in several cities the methods being adopted to improve traffic flow and road safety. There were many new ideas which were now being examined.

Mr. Grimond: Can the Minister hold out any hope of making economies in road or bridge building? Secondly, has he studied the system of toll charges which operates in America?

Mr. Marples: on the first part of the hon. Member's supplementary question, it is difficult to compare costs in foreign countries with those in this country, because of the many variables, such as the rate of exchange, but we may be able to make slight economies. More than anything else, we might be able to add to the amenities. As for the second part of the supplementary question, toll roads in America are now being abandoned. They were successful largely because they were long roads in congested areas, with limited points of access. Since this country is so much smaller there are more points of access. At places like bridges and tunnels tolls seem to be suitable all the world over, but opinion in America is against the provision of further main toll roads.

Mr. Grimond: Can we take it that toll roads are out?

Mr. Marples: No. I was giving the American experience.

Colonel Beamish: Did my right hon. Friend observe the excellent lane discipline that exists in the United States, and contrast it with the lack of discipline in this country? Has he any legislation in mind, or any alterations to the law, which might improve lane discipline in this country?

Mr. Marples: Lane discipline in America is better than it is here, but that is largely because American roads are marked accordingly. In the early days of the M.1 it was an appalling spectacle to see drivers going all over the road, but the latest reports show that lane discipline is being gradually assimilated by the drivers, and that they are beginning to observe the lane rules.

**London-Yorkshire Motorway**

The Parliamentary Secretary to the Ministry of Transport, Mr. John Hay, informed Mr. F. Noel-Baker that the first 73 miles of the London-Birmingham Motorway had cost about £395,000 per mile. Until the detailed design of the northern section was completed, it was not possible to give an accurate estimate of its cost,

but preliminary investigations suggested that the cost was likely to be of the order of £425,000 per mile, so that the cost per mile of the completed motorway would be about £418,000 per mile. The total length would be about 160 miles and the total cost about £66m.

**Tyne Tunnel**

Mr. Fernyhough asked if, in view of the number of unemployed in Jarrow and Hebburn, the Minister would give permission for work to start immediately on the approach roads to the proposed Tyne Tunnel.

Replied Mr. Hay: We are informed by the highway authorities concerned that work on the tunnel approach roads cannot be started until they have obtained fresh Parliamentary powers for the construction of the tunnel and the approach roads in accordance with their new plans. As the House will know, the councils have now deposited the necessary Bill.

**London-Exeter Road**

Questioned by Mr. Wingfield Digby, the Parliamentary Secretary said that future plans provided for very significant increases in the length of dual carriageways to be finished on the London-Exeter Road. The first to be finished would be 1½ miles between Moorhill and Hatch in Hampshire, and 2½ miles of the Staines By-pass to be completed at the end of 1961. There would be more sections of dual carriageway as "we go ahead."

**Roads, London-Bournemouth**

Replying to Captain Pilkington, the Parliamentary Secretary said that, apart from Staines By-pass which was now under construction, the Ministry planned to spend £100,000 in 1960 on the construction of 1½ miles of dual carriageway on A.30 in Hampshire, and £24,000 on the improvement of the junction of A.30 with A.325. Considerable lengths of carriageway in Surrey would be widened from 30ft. to 33ft. in the course of resurfacing.

**Accidents**

In a written answer, Mr. Marples pointed out to Mr. Proctor that the safety of workers on schemes like the Barton Bridge was covered by the Factories Acts, which were administered by the Minister of Labour. The present arrangements for contracting and sub-contracting on these projects were governed by the relevant clauses in the Institution of Civil Engineers' Standard Conditions of Contract and he had heard no suggestion that they were unsatisfactory in this respect. He did not consider, therefore, that there was any occasion to set up a committee to consider what administrative changes were necessary in the road and bridge construction programme at present in operation.

**Public Works Loan Board**

Mr. Sydney Irving asked the Chancellor of the Exchequer if he would arrange for the balance of the Public Works Loan Board's outstanding debt to be used as the nucleus of the capital from which the Board could continuously re-lend while at the same time allowing the Board greater freedom in its lending policy.

Mr. Amory: No, Sir. I do not consider that a change is called for in the present policy governing lending by the Public Works Loan Board.

Mr. Irving: Is the right hon. Gentleman aware that it is increasingly urgent to help efficient local authorities who should have greater access to funds at rates of interest more in keeping with the needs of the services they have to undertake? Will he find means to provide greater stability for local government finance, so that they can

get away from the tremendous amount of short-term debt being built up which is worrying them a great deal?

Mr. Amory: In regard to the first part of that supplementary question, I do not think the course suggested would be a good one. It would lead to the kind of distortion we knew twelve or thirteen years ago.

**"ALL-IN" SERVICE**

To the Editor of "The Contract Journal."

Sir,—Having just returned from three weeks' rather unsuccessful fishing vacation, I find, on my office desk, John Sumner's reactions to my few ideas on "all-in" service which you published on December 10. Well that's fishing, I suppose.

And now I just haven't time to get John Sumner out of his deep water. I'm too busy providing the traditional architect services for the many customers who still prefer to buy those services direct, rather than through a builder, suspicious types who appreciate the probabilities of being taken for a ride when they have no knowledgeable representative in dealing with the other party to the contract, the builder. For, if the builder pays the architect he will surely at least influence the tune.

I'd enjoy nothing better than exchanging arguments at 10,000 miles with John Sumner but time won't permit, because my clients not only insist on their architect preparing their plans under their instructions, but they also insist on his calling competitive tenders, because they are ungenerous enough to suspect that the "all-in" operator might make a "mistake" in his estimating and that the mistake might be on the high side. Then they also insist on the architect supervising the building work and checking costs of variations, etc., they won't even trust the builder in these small matters. They evidently think that his financial interest in the contract might lead him into being a little unfair over so many matters, materials, workmanship, and costing. They don't seem to think that they can check all these things themselves, so they have their architect do it. Of course there is the odd occasion when, to save the month or two required for preparation of quantities and calling tenders, the building owner decides to give his job to a builder, but the suspicious type still employs his architect direct, and the architect is just as busy, and even more useful, in this type of contract.

And so I must withdraw from the debate through pressure of straight architectural business, leaving the last word to John Sumner.

Yours etc.,

ALAN E. STAFFORD,  
F.R.A.I.A., F.A.P.I.

North Sydney,  
Australia.

**GRANULATORS IN PRODUCTION OF ROAD AGGREGATES**

It is the performance of the granulator or final-stage crusher that determines the grading and shape of the final products from a plant preparing road aggregates. Road Research Technical Paper No. 44\* summarizes the results of an extensive study of ten granulators covering the four main types, jaw, cone, impact and rolls, when used on twelve different types of rock.

Each machine was studied over the whole practicable range of operating conditions, the object of the work being to compile a large mass of information for the guidance of both manufacturers and users of granulators. The report should help producers of road aggregates to use their granulators to the best advantage in meeting the fluctuating demands for the different sizes of aggregate and at the same time supplying each size asked for within the specification limits.

\*Road Research Technical Paper No. 44. Published for D.S.I.R. by H.M.S.O., price 5s. 6d. (99 cents U.S.A.), by post 5s. 10d.

## JUNE START ON STAFFORD BY-PASS

### Tenders to be Invited Next Month

A START will be made in June on the construction of the first section of the 26 miles of the Birmingham-Preston Motorway, from Dunston, Staffs., to the Cheshire boundary near Barthomley.

The Minister of Transport has authorised Staffordshire County Council to notify contractors of the intention to advertise early in March for tenders for this section, which comprises the whole of the Stafford By-pass including the link road from the Eccleshall Road junction to the Stafford-Newcastle Trunk Road.

The new road will be to motorway standards, having an effective width of 118ft., with two 36ft. three-lane carriage-ways and a 13ft. wide central reservation. The length comprising the Stafford By-pass will be about six miles.

After leaving the southern junction with the Stafford-Wolverhampton Road at Dunston, it crosses Ashflats Lane where a four-span accommodation road bridge is located to deal with the farm road, and a two-span bridge to carry Ashflats Lane over the motorway. Barnbank Lane, farther north, is carried over the motorway with a similar two-span bridge.

A 144ft. single-span footbridge caters for Burton Bank Lane, which will be closed to vehicular traffic, and a single-span underbridge near the B.R.C. sports club deals with Burton Manor Road. Thorneyfields Lane is carried over the motorway, while the Stafford-Newport Road is taken under the motorway some 600yd. west of the Castle. Various small under-bridges deal with the footpaths and accommodation roads between the Castle and Aston Bank, while the motorway is carried over the Stafford-Shrewsbury Railway Line by a single-span bridge.

In order to get reasonable gradients and alignments on the present roads it has been necessary to divert Aston Bank and the Seighford Road, the new route being carried by a new bridge over the motor-

way, so obviating the present poor alignment of Aston Bank west of Doxey Bridge and the two right-angled bends on the Seighford Road. The line joins up with the present Creswell Viaduct scheme and has a major motorway junction with the Stafford-Eccleshall Road. Provision is made at this junction for a dual carriage-way link road to the Stafford-Newcastle Trunk Road, A.34, where a roundabout will be situated approximately at the Stafford Borough Boundary.

In order to provide the necessary balance of the earthworks the opportunity will be taken to continue the work northwards so that it will ultimately link up with the continuation of the motorway through to the Cheshire boundary.

#### Earthwork

The scheme will require the movement of about 1,795,000 tons of earthwork, 45,000yd. of drainage with pipes to a maximum size of 48in., the laying of 170,000 tons of road foundations and 454,000 sq. yd. of finished road surface. In total there will be eight bridges over the motorway, and 18 bridges under the motorway to deal with roads, footpaths, railways and rivers. In addition, it is intended to provide a service area near the crossing with Aston Bank, but the ultimate detailed development of this site has not been as yet decided by the Minister.

Considerable care has been taken in designing the road to ensure that when constructed it will marry in with the countryside and planting and other amenity treatment will make the route as attractive as possible both for the travelling public and the residents in the area.

The County Council have been appointed the Minister's agents for the work and the whole of the undertaking has been designed and will be supervised by the county surveyor, Mr. F. Jepson, and his staff.

## NUCLEAR POWER STATION FOR SUFFOLK

THE Central Electricity Generating Board have been informed that the Minister of Power has decided to give his consent to the building of a nuclear power station at Sizewell, Suffolk.

Tenders are being sought forthwith from the consortia of companies engaged in nuclear power station construction work, and preparatory work will be carried out on local access road improvement.

Having a planned output of 650,000-kW, the project will be larger than any of the four stations now being constructed by the Central Electricity Generating Board, but the board are seeking consent for a 1,000,000-kW station at Oldbury, Gloucestershire. Consent has also been received for a 500,000-kW station at Dungeness, for which tenders will be considered in April. This contract is expected to be placed by midsummer.

## LINK ROAD ESTIMATED TO COST OVER £400,000

At a cost of over £400,000, a trunk road is to be constructed to link Gillingham, Kent, with the M.2—the planned motorway between London and the Channel ports. It will be built at the same time as the motorway which will by-pass the traffic bottleneck of the Medway towns.

An Order formally establishing the line of the 2½-mile road will be published soon.

## BOSTON HOSPITAL ARCHITECTURAL COMPETITION

The Ministry of Health has announced that Sheffield Hospital Board will shortly invite architects to participate in an open competition, approved by the Royal Institute of British Architects, for designs for a new 470-bed hospital at Boston, Lincolnshire.

## HOLLOWAYS TO BUILD MULTI-STOREY EDINBURGH OFFICE BLOCK

A CONTRACT for the foundations and superstructure of the new head office building in Edinburgh of the Scottish Widows' Fund and Life Assurance Society has been awarded to Holloways Scottish Constructors, Ltd.

The building will comprise basement and seven floors, giving a total floor area of about 65,000 super. ft. Ground floor and basement are to be 100ft. by 120ft. on plan and will provide accommodation for cars, records, offices and public areas. The upper floors of two wings, approximately

120ft. by 44ft. and 56ft. by 44ft. on plan are to be private offices; and the top floor is for the caretaker's flat, canteen, plant rooms and open roof areas.

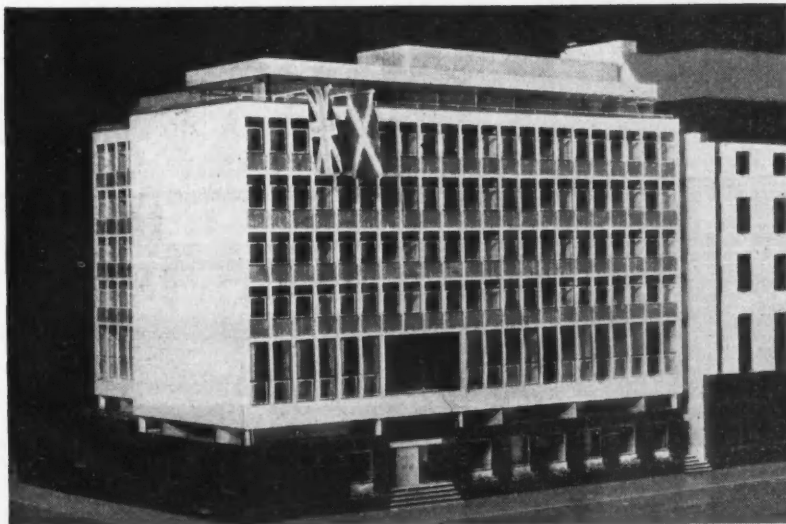
The site is in a prominent position in Edinburgh on the west side of St. Andrew Square, surrounded on three sides by public roads and adjoined on the other by an existing building. Access will be limited and space very tight; and the whole operation will require careful planning. It is anticipated that construction work will commence on March 1, 1960, and the building is scheduled for completion by June, 1962.

Basil Spence and Partners, Edinburgh and London, are the architects. Consultants include: Structural engineers—Blyth and Blyth; quantity surveyors—J. D. Gibson and Simpson; mechanical engineers—A. F. Myers and Partners; electrical engineers—Mitchell, Dey and Lackie.

## MEASURING TAPE EXHIBITION

An exhibition, entitled The Making of a Measuring Tape, was presented in London last week by A. West and Partners, Ltd., with the co-operation of James Chesterman and Co., Ltd., Sheffield, who have been manufacturing measuring tapes for more than a hundred years.

The exhibition included photographs and component parts of a measuring tape in progressive stages of manufacture up to the finished product. There were also examples of various measurements used in different countries, together with a museum collection of tapes made in the nineteenth century, and many items of modern and specialist measuring tapes.



Model of the proposed offices



## "VINTAGE YEAR FOR FIRES"

### Research into Problem of Fire Spread

**F**IRE brigades are estimated to have attended over 200,000 fires during 1959, nearly twice the normal number in a year, said Mr. D. I. Lawson, director of the Fire Research Station, in a recent address to the Insurance Institute of London. Fire losses during 1959, which Mr. Lawson described as a "vintage year for fires," totalled £44m., a new all-time record, exceeding the previous record in 1955 by nearly £17m.

Mr. Lawson said it was suspected that the dry summer led to an increased number of outbreaks inside buildings as well as outside. "If it were possible to relate the number of outbreaks of building fires to the climate prevailing at the time, then from the weather forecast it should be possible to broadcast a warning to the public when a time of extreme fire danger was approaching. As these warnings would be for a limited duration, it should be possible to secure the public co-operation more effectively than is the case with fire propaganda at present. With this in mind, a survey will be made during the coming year on the incidence of fires in various parts of the country in 1959 in relation to the weather conditions prevailing at the time of or just prior to the fire."

#### Fire Spread

"While it is important to reduce as far as possible the causes of fire it is also very important to ensure that fires shall not spread rapidly throughout a building," he stated. "Experiments with fires in rooms indicate that the wall linings have a large effect on fire spread. This has led to a large number of tests being carried out on wall lining materials. The results of these tests have been published recently by the Stationery Office in a booklet, 'Flame-retardant Building Materials.'"

"Quite recently a number of serious fires in factories has focussed attention on the problem of fire spread in industrial buildings. These together with the provisions of the Factories Thermal Insulation Bill have led to an experimental programme to determine the contribution of wall linings in large buildings. Clearly it is not possible to carry out experiments on full-scale and it is necessary therefore to inquire how far model techniques may be used in studying fires of this size. It appears that a fire has three stages. During the first stage the fire is increasing in area and the rapidity of growth will affect the safety of life and

also the property destroyed before the brigade arrives. The duration of this stage is governed by the amount and nature of the fuel and the amount of air entering the building. The temperature inside the building rises steadily during the first stage and then levels off as the second stage commences. During the second stage the fire burns steadily for a time, depending on the rate at which air enters the building and the amount of fuel present. It is now known that the rate of burning is roughly proportional to the supply of air to the fire and also how this is controlled by the dimensions of the windows. The duration of the second period is therefore proportional to the total fire load and inversely proportional to the rate of supply of air. In this second period the time for saving life and stored goods is past and it is during the period that the structure receives its greatest punishment. The last period is one in which the temperature of the building falls and the fire cools as the combustible contents become exhausted.

"From experiments using models we are beginning to learn how great a part window openings and quantity of fuel play in determining fire conditions and before long it should be possible to design structures in relation to the fire conditions that are likely to occur in their use. This is such an encouraging field of research that other countries—U.S.A., Canada, Italy, Holland and Germany—have agreed to join us in a co-operative effort to understand how building design influences fire severity.

"From this work it will be possible also to say how much heat is radiated from building fires and this in turn will give a definite indication as to how far buildings should be separated. In fact, experiments of this kind have already enabled recommendations to be made for the Scottish Building Regulations. Measurements on model scale are also being made of the heat transfer from flames to floors above the one already ignited to obtain information about the fire spread from floor to floor over the outside of a building.

"Side-by-side with these model experiments, investigations are being made of the fire spread from storey to storey in full-scale buildings. These large experiments are relatively costly and so the opportunity is taken to repeat each one at one-third scale to increase our knowledge of model fires.

"Very little is known at present about the effect of wind on fire spread. In carrying out experiments in the open,

results are often affected by the wind and it has been necessary to choose days judiciously in order to get representative results. It is now possible to carry out fire experiments inside the new Models Laboratory, the roof of which will open over a section 36ft. x 40ft. to allow the escape of smoke and hot gases. This year a fan installation has been installed by means of which air can be sucked across the laboratory. In this way wind speeds of up to 30-m.p.h. can be developed across a section 15ft. x 15ft. by 10ft. high."

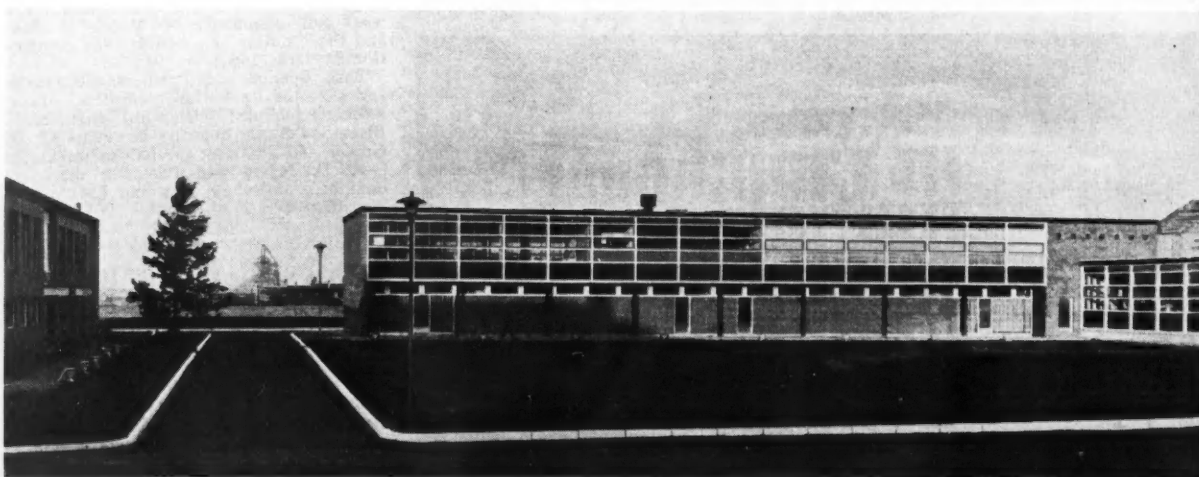
#### Performance of Structures in Fire

"Modern buildings are constructed so that if a fire occurs in one part it is confined to the compartment in which it starts. This means that walls, partitions, columns and floors must be subjected to the conditions of a fire and their performance examined. Prestressed concrete constructions have grown in importance in recent years and a research programme has shown how this new material may be used safely in buildings. Perhaps the best illustration of our confidence in the results we have obtained is that it has been used for our own Models Laboratory in which we carry out quite large fire experiments.

"We are currently engaged on a programme of work on the fire resistance of hollow bricks as these would effect considerable economy in buildings if they were generally adopted. Similar programmes have been carried out on dense and lightweight concrete block walls.

"Quite apart from this work, over the last 10 years we have carried out sponsored fire resistance tests for industry. The firms concerned in the large majority of cases have agreed to make the results generally available and within the next few months a book should be available detailing the constructions tested and giving the fire-resistance ratings obtained.

"The classification of roofs has proved an embarrassment in this country for many years. A roof is required among other things to prevent the entry of fire into a building. Clearly it must not spread flame over its surface rapidly or it will become a hazard to other buildings. This has been met in the past by calling for incombustible constructions, though some exceptions to this have been allowed. By subjecting a large number of different roof constructions to the radiated heat which might be experienced if a neighbouring building were on fire, it has been possible to devise a roof test, a description of which will be found in B.S. 476, Part 3. In this way it is now possible to provide a rational system of grading roof constructions both according to the hazard of penetration and of spreading fire across the exterior surfaces.



Pictured here are the new apprentice training workshop and dining and recreation rooms recently opened at the Workington Iron and Steel Company. The single-storey workshop block comprises a general workshop, electrical section and a welding shop, and the dining and recreation block contains four management and staff dining rooms on the first floor, served from a centrally situated kitchen. Linking the two blocks is a squash court with gallery and changing room. The main contractors for the buildings were John Twinnam, Ltd., and the architects were Johnston and Wright, Carlisle

## BUILDING RESEARCH STATION

## DIGEST No. 130

## Supersulphate Cement

IT has been possible for a long time to import supersulphate cement from the Continent, and many important civil engineering and building works have made use of supersulphate cement concrete, in particular because of its good resistance to chemical attack. British brands of supersulphate cement are now becoming available, and since it differs in many important respects from other cements this Digest has been prepared to give guidance to the user.

Supersulphate cement is made from a mixture of 80-87 per cent. of granulated blast-furnace slag and 10-15 per cent. of calcium sulphate, to which is added up to 5 per cent. of Portland cement or cement clinker. The slag must be well granulated, of a glassy structure, and suitable in chemical composition. The ingredients are ground, together or separately, more finely than for ordinary or rapid-hardening Portland cement. By suitable choice of slag and fineness of grinding, supersulphate cements of high early strength can be made and are allowed for in the Continental specifications (British slags are not in general suitable for these, but they do give cements with early strength similar to that of ordinary Portland cement at normal temperature).

At present there is no British Standard for supersulphate cement, but some of the tests of B.S.12 (for Portland cement) are applicable. Both British and foreign supplies will normally pass the requirements of B.S.12 for setting time, soundness, and compressive strength of vibrated mortar cubes or standard concrete.

Table 1

Range of strength values obtained on 4in. cubes, water-stored, with a 1:1½:3 mix of supersulphate cement concrete, w/c 0.50.

Age in day	Compressive strength lb./sq. in.
3	1,750-3,000
7	3,000-5,000
28	5,250-6,000
90	7,500-8,000

The bulk density of supersulphate cement, however, may be only 70lb. per cubic foot, as compared with 85-90lb. usually assumed for Portland cements, and this must be allowed for in converting mixes from weight to volume proportions.

The shrinkage is about the same as that of other cements used for structural purposes.

## Supersulphate Cement Concrete

Concrete is mixed and placed in exactly the same way as with other cements, but supersulphate cement must not be mixed with any other type of cement, nor must lime be added to it. As with other cements, the strength of the concrete depends on the water:cement ratio, decreasing as this ratio increases. Strength and workability are adversely affected if too much sand is used in the mix, more so than would be the case with Portland cement. Supersulphate cement is also more sensitive to the quality of sand than Portland cement, and dirty sands or aggregates with a high content of organic matter must be avoided. Clean water of drinking quality should be used for mixing.

Supersulphate cement will give a more workable mix than most Portland cements for the same water:cement ratio. A typical mix would be 1:1½:3 by weight, with a water:cement ratio of 0.50. This is somewhat richer than a typical mix with Portland cement. It must be remembered, however, that supersulphate cement will be used principally for its resistance to

chemical attack, and for this purpose the cement content of concrete must be adequate. Table I shows the range of strengths obtained with different brands.

These values are for normal ambient temperatures. In cold weather the development of strength is delayed more than with most Portland cements, but the ultimate strength is unaffected.

At tropical temperatures the strength of supersulphate cement concrete is greater than in normal conditions, but precautions must be taken against drying out. These cements require a greater quantity of water for hydration than the Portland type, and therefore evaporation during the curing period must be prevented.

Up to a certain point, still higher temperatures of curing give higher strengths. Maximum strengths are obtained at about 45-50 deg. C. (105-120 deg. F.); at temperatures higher than this the resulting strengths will be lower. It is not advisable to undertake steam curing unless the strengths obtained from the concrete mix have been checked over a period of time using the materials and the conditions of steaming it is proposed to use.

For early setting and hardening, supersulphate cement depends on the small amount of Portland cement it contains. After prolonged storage, or storage in damp conditions, this Portland cement may deteriorate and the supersulphate cement will then give lower strengths, particularly at early ages. Good conditions of storage and transport are therefore essential.

Supersulphate cement concrete requires careful curing. Work should be kept moist with curing membranes, or should be sprayed and covered with damp sacks, for at least three days.

Surfaces exposed to the air will form a soft skin, but this is only a small fraction of an inch thick, and the effect is not progressive. Once the skin has worn off, if the concrete has been properly prepared, the surface will be hard and impervious.

Supersulphate cement concrete can be bonded to mature Portland concrete, and vice versa, without fear of interaction.

During the early life of reinforced concrete made with supersulphate cement there is a slight corrosion of mild-steel reinforcing bars; this is not progressive and is of no significance if the concrete is well made and if there is adequate cover to the steel (at least 1½ in.). Prestressed units have been successfully manufactured.

There are some difficulties in measuring the heat of hydration of supersulphate cement by the B.S. method. It has, however, been measured by other means, and has the approximate values of 40-45 calories per gramme at 28 days. Such a low value is advantageous in mass concrete work in avoiding stresses set up by internal temperature rise.

## Resistance to Chemical Attack

Supersulphate cement is much more resistant to sulphate attack than is Portland cement, and is generally better in this respect than sulphate-resisting Portland cements. As with all cements, however, resistance to aggressive agents will be obtained only if care is taken to obtain good dense and impermeable concrete.

Magnesium and ammonium sulphates attack supersulphate cement more rapidly than other sulphates, especially in the more concentrated solutions. However, the resistance to seawater, which contains magnesium salts, is very high. The soil conditions under which supersulphate cement is preferred are classified in Digest 31.

With high-quality concrete, a good resistance against weak organic and inorganic acids (of pH value down to about 3.5) is obtained. This makes it particularly

suitable for sewers carrying certain trade effluents, and gives some protection against the action of sulphate-reducing bacteria.

Supersulphate cement concrete has been used successfully for tanks and floors that need to resist attack by linseed and other vegetable oils. It also resists attack by sugars and phenols. For such special uses the advice of the makers should be obtained. The wearing properties of floors are improved by trowelling in neat cement before the concrete has set, a practice that must not be adopted with Portland cement.

Supersulphate cement mortar may be used for jointing chemically resistant brickwork or floor tiling. The mix should be 1:2 or 1:2½. It may also be used as a rendering, and may be applied by the cement gun. In such applications care is needed in curing to minimise the formation of a soft skin.

It is more expensive than sulphate-resisting Portland cement, which will be found adequate for the less severe conditions. Some guidance on the choice of cements for various situations can be obtained from Digests 31 and 74 and from Water Pollution Quarterly Note No. 6.

## CRACKING OF ASBESTOS-CEMENT SHEETS

THE properties of asbestos-cement and its behaviour on weathering are now well known. Methods of fixing the material have been devised to take account of these properties, and experience has shown that, when properly fixed, it is capable of giving satisfactory service with little risk of premature failure by cracking. During the past year or so, however, there have occurred a few instances of asbestos-cement sheets, painted externally, warping and cracking within a very short time of fixing (four months in one instance). These failures were not confined to one particular form of sheeting or position in the building; they have occurred both with corrugated sheets used for roofing and with fluted sheets used for vertical cladding. Moreover, there was no evidence to suggest that unsuitable fixing methods, or undue movement of the frame to which the sheets were fixed, had been responsible for the trouble.

Examination of samples of defective sheets has shown that considerable carbonisation of the unpainted surfaces had taken place, whereas the painted external faces were unaffected. Carbonation (the action of moist carbon dioxide on the cement) is itself not a serious change, but it is accompanied by an irreversible shrinkage. It is this shrinkage of the side of the sheet not protected by the paint that seems to be the main cause of the failures. Warping of the sheets is usually the first indication of differential shrinkage, but eventually the stresses set up may lead to cracking. How much shrinkage can occur without causing warping or cracking depends largely on the rigidity of the fixings.

It follows that this type of failure can be avoided by painting the back surface as well as the front, to prevent carbonation. The normal fixing practice to allow some freedom of movement should still be followed, however. The results of site trials along these lines support the above diagnosis and remedial measures.

Back-priming is, in any event, recommended for painted asbestos-cement sheets. It prevents absorption of moisture through the back of the sheet, thereby reducing the risk of paint failure on the face. Where the underside of the sheet is not exposed, ordinary black bituminous paint is adequate; otherwise a coloured paint treatment may be called for. Recommendations for the painting of asbestos-cement are given in Digest No. 38.

Sheets painted only on the back face are not known to have cracked. This may be because the practice is uncommon, but there are also technical reasons why cracking, due to differential carbonation shrinkage, should not occur under these conditions.

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## Men and Movements

**MR. Cecil Rowland Setter, J.P., F.I.O.B.**, who has been elected senior vice-president of the National Federation of Building Trades Employers, is chairman and joint managing director of Stone and Co. (Bristol), Ltd. Mr. Setter was president of the Bristol Association of Building Trades Employers in 1945, president of the South Western Federation of Building Trades Employers in 1952, and is currently a member of the South Western Regional Council and of the Regional Joint Committee, as well as a Fellow of the Institute of Builders. He has been a member of the N.F.T.B.E. Council for about 10 years and serves on many of its committees. He was president of the Federation of Registered House-Builders in 1957, and is still a member of its Council. Mr. Setter has also served on the south western section executive committee of the Federation of Civil Engineering Contractors.



C. R. SETTER

At the recent annual general meeting of the National Contractors Group of the London Master Builders Association, **Mr. G. L. R. Dickens**, of Sir Robert McAlpine and Sons, Ltd., was elected chairman, and **Mr. T. Freakley, F.I.O.B.**, of Taylor Woodrow Construction, Ltd., vice-chairman.

**Mr. C. D. Cook** has resigned from the board of Hickson's Timber Impregnation Co. (G.B.), Ltd., but will remain with the company as research and development manager.

The new deputy chairman of Sir William Arrol and Co., Ltd., is **Mr. W. I. French**. Other changes in the organisation include the appointment of **Mr. Alfred Davis**, formerly special director at the Crane work, as a director of the company in full charge of the works, and the appointment of **Mr. W. Reside** as chief engineer at the works, where he will also continue as a special director.

Having completed 50 years' service with W. C. Simpson and Son, Ltd., painting and decorating contractors of Edinburgh, **Mr. John W. Moore**, who joined the firm at the age of 15, was recently presented with a gold watch. **Mr. J. B. T. Loudon**, secretary of the Edinburgh Branch of the Scottish Federation of Painting Contractors, **Mr. D. A. Glasgow**, secretary of the Edinburgh Branch of the Scottish Painters Society, and members of the staff, attended the ceremony. The photograph shows Mr. Moore receiving the gift from Mr. John F. Edmonds, senior supervisor, watched by Mr. George F. Simpson, managing director of the company.



**Mr. J. S. Bright**, who joined C.A.V., Ltd., last year from F. Perkins (Canada), Ltd., has been appointed service manager of the company. In his new appointment, he will be responsible for control and co-ordination of all aspects of C.A.V. service at home and overseas. **Mr. C. W. Billington** will continue as service manager for the U.K. and will be responsible to Mr. Bright.

A second Chair in the Department of Architecture at Sheffield University will be filled by **Mr. John K. Page, B.A.**, who has been appointed Professor of Building Science. Mr. Page, who is at present Lecturer in Environmental Physics in the Department of Building Science at Liverpool University, will collaborate at Sheffield with the Professor of Architecture.

**Mr. F. W. Tomlinson**, managing director of Pyrotenax, Ltd., **Mr. J. M. Willey**, director and general manager of Murex Welding Processes, Ltd., and **Mr. P. S. Bryant** of Murex, Ltd., have been appointed to the board of Murex, Ltd. Mr. Tomlinson has also been appointed to the board of Murex Welding Processes.

**Sir John Wrightson**, vice-chairman and managing director of Head Wrightson and Co., Ltd., for the last ten years, has been appointed to succeed **Mr. Richard Miles** as chairman and managing director. Mr. Miles, who has retired, has been chairman of the company for ten years, and managing director for twenty-five years, remains on the board of the parent company.



SIR JOHN WRIGHTSON

**J. I. Case Co., Ltd.**, the newly formed subsidiary of the American J. I. Case Company, have announced the following appointments as area representatives: **Mr. C. Boothroyd**, will cover Yorkshire, Northumberland, Durham; **Mr. R. Latham**, to cover Lincolnshire, Nottinghamshire, Derbyshire, Leicestershire, Northamptonshire, Rutland, Huntingdonshire, Cambridgeshire, Norfolk and Suffolk.

**Mr. Raymond G. Parker**, who resigned from Witol, Ltd., at the end of 1959, has now accepted an appointment as joint managing director of Allplant, Ltd.

**Mr. A. H. Cornwall**, management consultant and head of the Trofdek group of companies, is visiting San Francisco to implement a newly signed contract with the largest association of American plywood manufacturers, involving the licensing of up to 200 United States factories to begin manufacture of Trofdek ultra-lightweight roof decking within the next two years. While in America, Mr. Cornwall will co-operate with **Mr. Dub Page**, executive vice-president of the Plywood Fabricator Service Inc., in initiating Trofdek promotion programmes throughout the U.S.A.

After 40 years' service with the company, **Mr. W. T. Lawes** is resigning his position as secretary and director of John Shelbourne and Co., Ltd. **Mr. H. R. Pinnington, A.C.I.S.**, has been appointed secretary.

**Mr. H. J. Cruickshank, A.M.I.Mech.E., F.I.O.B.**, an assistant managing director of Gilbert-Ash, Ltd., has been appointed an additional managing director.

**Mr. G. Binns** has resigned from the board of Robert M. Douglas (Contractors), Ltd.

### MUNICIPAL

After 34 years' service with Boston B.C. and over 48 years in local government, **Mr. D. G. Cockrill**, borough surveyor at Boston, will retire in July.

Lambeth B.C. have been recommended to appoint **Mr. Duncan H. Nicholson**, at present deputy borough engineer at Shoreditch, as deputy borough engineer to succeed **Mr. Charles Stainton**, who will retire at the end of March after 40 years' service with the Council.

**Mr. G. E. C. Webb**, chief engineering assistant at Bridgwater, has been appointed deputy borough engineer by the Council in succession to the late **Mr. A. H. Bonham**.

The new deputy engineer and surveyor to Litherland (Lancs.) U.D.C. is **Mr. Charles Minshall**, previously chief assistant engineer at Nuneaton.

**Mr. G. L. Laverick** is to retire after 31 years as engineer and surveyor to Knottingly (Yorks.) U.D.C.

Burton Latimer (Northants.) U.D.C. have appointed **Mr. A. McMillan** as the new surveyor and public health officer to succeed **Mr. G. Borman**. Mr. McMillan is at present with Leslie (Fifes.) B.C.

**Mr. J. Ford**, engineer, surveyor and architect to Bishop Auckland (Durham) U.D.C., who is to retire in March, will be succeeded by his assistant, **Mr. F. Mole**.

**Mr. James A. Rodgett**, burgh surveyor at Coldstream, has been appointed burgh surveyor and sanitary inspector to Sanquhar (Dumfries.) B.C.

Ipswich B.C. have been recommended to appoint **Mr. R. J. Williams** as deputy borough engineer. He is at present chief engineer at Gateshead.

Taking up a new post as borough engineer at Maidstone in April will be **Mr. Robert Orrell**, at present deputy borough engineer at Harrogate.

**Mr. G. A. Joy**, borough engineer at Bexley, who has been in the Council's service since 1925, has retired. He has been succeeded by the deputy borough engineer, **Mr. N. Harrison**.

Brighton B.C. have appointed **Mr. Frederick N. Patterson** deputy borough surveyor, engineer and planning officer. He is at present deputy borough engineer at Hastings.

**Mr. Jack Shepherd**, water engineer at Burnley since 1933, will retire on health grounds.



## SCOTTISH CONFERENCE ON BUILDING EDUCATION

**T**HE eighth open conference to be arranged by the Scottish Association for Building Education was held recently at the Royal College of Science and Technology, Glasgow.

The opening address was given by Prof. Frank Fielden, C. de G., M.A., F.R.I.B.A., professor of architecture and superintendent of building classes, Royal College of Science and Technology. He said that until about the middle of the 19th century, there had been very little technical progress in building since the time of the Romans; a master of works who had constructed some of the Roman baths or villas could have fairly readily picked up the threads on a 19th-century site. This was no longer the case. There was now a flood of new materials and techniques being introduced every day. The present-day builder had to be a technologist, economist and administrator, all rolled into one.

However, he doubted if the building industry was attracting the cream of youth into its ranks as were the newer industries—atomics, electronics, aeronautics, physics and chemical engineering. One only had to read the Sunday papers to see the attractions offered by these industries. Building had a good apprenticeship system but the industry of tomorrow required something more—a builder with good educational qualifications, trained at a full-time college, with some form of practical training, either integrated with his course or immediately after it.

The Professor's address encouraged a lively discussion, especially on the advisability of training architects and builders separately or together.

### Scandinavian High Buildings

Mr. T. Harley Hadow, M.I.C.E., M.I.Struct.E., consulting structural engineer, Edinburgh, opened his address with a very interesting colour film which he had taken himself in the summer of 1959, illustrating modern high buildings in Stockholm and Copenhagen. He then continued by showing details of the buildings on coloured slides, which illustrated very clearly the rapid strides which have been made in Scandinavia on this type of construction, especially with curtain walling and precast work.

The Scandinavians would appear to complete much more of the design and detail

work before they commence construction, than is common in Britain.

Pictures were shown of precast wall sections complete with triple-glazed sashes and finishings and of floor sections complete with drains and terrazzo floor finishes, standing in a precast factory ready for dispatch. The various types of curtain walling finishes in present use were also illustrated and discussed by the speaker.

The number of interested questions which were capably answered by Mr. Hadow showed very clearly how much the talk had been appreciated by the audience.

### Need for Management Training

Mr. W. Allan Gay, B.Sc., A.R.C.T.S., A.M.B.I.M., senior lecturer, Department of Industrial Administration, Royal College of Science and Technology, posed the question—"What was the need for Management Training." It was not taught in the past. Therefore, why today? He replied that today we considered it wasteful to learn always from experience; why not save time and learn from our predecessors. In addition, the complexities of today were not experienced in the past.

He felt that most was learned in management courses where the classes consisted of men drawn from various industries, because at them they could learn much by discussing the other man's problems. Management courses were not to be confused with specialised courses dealing with the changing technological trends of one particular industry.

It was often thought that the conflict in industry was between management and the trade unions but the managers of today had to appreciate the conflicting aims in management itself. For example, those between sales and production, or between production and accounts.

He dwelt at some length on the question of communications, the method of passing on information, instructions or orders; and how the lack of clear and proper communications was often the biggest stumbling block to good management and also the cause of much misunderstanding and discord in industry.

There was a natural reluctance to accept the idea that managers could be trained. The building industry was one of the basic industries of the country he concluded and must, therefore, accept the necessity of training for management as have many of the more obviously mechanised industries.

## Obituary

**M**R. Arthur Clifford Hartley, C.B.E., president of the Institution of Civil Engineers. Born in 1889, he began his engineering studies in 1906 at the Hull Technical College and was later at the Imperial College of Science and Technology, the City and Guilds (Engineering) College, London. In 1910, he obtained his A.C.G.I. and graduated a B.Sc.(Eng.), London University, with honours. Mr. Hartley then became a pupil of the late Mr. T. M. Newell, M.I.C.E., chief engineer of the North Eastern Railway, Hull Docks, and afterwards obtained mechanical engineering experience with Rose, Downs and Thompson, Hull, and management experience with the Limmer and Trinidad Lake Asphalt Co., Ltd. During the 1914-18 war, he was commissioned into the Royal Flying Corps. Over the period 1919-24, he was a partner in the consulting engineering firm, Maxted and Knott, specialising in the design and erection of cement works. Mr. Hartley began his long association with oil engineering when he became assistant manager in the Engineering Department of the Anglo-Persian Co. in 1924. In 1934 he became chief engineer of the company—then the Anglo-Iranian Oil Co.—and held that post until his retirement in 1951. Since his retirement he has been in private practice, and also a consultant to Rendel, Palmer and Tritton. He was elected president of the Institution of Mechanical Engineers in 1951. A memorial service for Mr. Hartley will be held at St. Margaret's, Westminster, on Tuesday, February 16, at 2.30 p.m.



It is also with regret that *The Contract Journal* records the death of the following:

Mr. James Mitchell Simpson Dalgleish, aged 60, works manager of Martin, Black and Co. (Wire Ropes), Ltd., Coatbridge, from its inception in 1933 until ten years ago. Since that time he has acted in an advisory capacity.

### SCOTTISH ASSOCIATION OF PAINT MANUFACTURERS

Fourteen paint manufacturers, representing approximately 70 per cent. of the industry's capacity in Scotland, announced in Glasgow recently that they had formed the Scottish Association of Paint Manufacturers with the object of promoting the interests of the industry in Scotland.

The work of the Association will be managed by a committee consisting of Mr. A. D. Cameron (Mathews, Maclay and Manson, Ltd., Glasgow), president; Messrs. F. A. Guthrie (John S. Craig and Co., Ltd., Glasgow); and John S. Montgomerie (Montgomerie, Stobo and Co., Ltd., Glasgow), vice-presidents; Dr. W. Stuart Sim (William Sim and Sons (Paints), Ltd., Leith); Mr. R. Y. Crawford (Thomas Macintyre and Co., Ltd., Glasgow) and Mr. R. Lang (Imperial Chemical Industries, Ltd., Glasgow).

Other firms which have, so far, joined the Association are: Hird, Hastie and Co., Ltd., Glasgow; Scottish Paints, Renfrew; Isaac Spencer and Co. (Aberdeen), Ltd., Aberdeen; Lewis Berger (Scotland), Ltd., Ferquhar and Gill, Ltd., Aberdeen; International Paints (Scotland), Ltd.; Simpson, Thompson and Shannon, Ltd., Glasgow; and North British Oil and Paint, Ltd., Glasgow.

Have you completed and posted your Readership Survey postcard?

## COMPUTERS SPEED HIGHWAY DESIGN

### Time Saved on U.S. Project

**B**Y the use of a computer, integrated with other mechanical devices, the whole process of detailed design for 11.2 miles of a dual-carriage roadway for the Indiana State Highway Dept., took less than 20 weeks. The highway, designed for 70 m.p.h. traffic, traversed relatively valuable farmland, which put a premium on careful analysis of right-of-way costs.

This example of the use of a computer was given by Dr. Kenneth Livesley (Lecturer in Engineering at Cambridge University) in a Paper, "The Place of Digital Computers in Civil Engineering," presented at the Institution of Civil Engineers in London last week.

Dr. Livesley has been concerned with the solution of engineering problems on computers since 1951, when he joined the staff of the newly opened Computing Laboratory, at Manchester University. Since 1955 he has been at Cambridge, where he has been respon-

sible for the computing work done by the engineering department. This work has in the past few years covered all the principal fields of engineering, and includes stress calculations for nuclear reactors, electron trajectory tracing, and the analysis of runway length requirements for aircraft.

In his Paper he referred particularly to the present and possible future use of computers in civil engineering practice. He did not attempt to catalogue all the engineering problems which have so far been solved on computers. Instead, three applications, including two from his own experiences, were studied as representative examples from which generally valid conclusions could be drawn.

The new machines, stated Dr. Livesley, did not challenge the status of the human engineer. They were merely tools whose value was entirely dependant on the competence of their users.

# Talking of Safety

by

"DRAGEE"

**R**OPE blocks have a wide variety of uses around the site, but all too often these handy appliances get into inexperienced hands and the primitive and haphazard arrangements we sometimes encounter are the result. At least, that is part of the outcome. All too often the final consequences are more serious and once again some well-intentioned but ill-informed worker has landed himself in hospital.

One such incident happened recently on one of our power station sites, where a small isolated gang of men was engaged on hauling some ventilation equipment on to the flat roof of a two-storey building. By a coincidence I arrived on the scene at the same time as the ambulance, and I watched the attendants lift the stretcher bearing the injured man, and slide it gently into the vehicle. I knew the charge-hand by sight; a slender, keen type named Weaver, whose pleasant face was creased with worry. He quickly gave me the main facts.

"We were getting ready to lift those cast iron frames. I told Arthur—the big chap over there—to get some tackle up on the roof."

"How heavy are the frames?" I asked. "The heaviest is two cwt. I checked that from the advice note—I have it here in my pocket, if I can just find it. . . ."

"Never mind. What happened then?"

"Arthur finished putting up the tackle, and we started to lift the big piece first. Then the support at the top came down, with the tackle, and Arthur's mate was hit on the head with one of the blocks as it fell. Gave him a nasty cut over the temple." He paused. "I telephoned for the ambulance and then I sent the lad to the Engineer's Office, but he was out somewhere, so I'm very pleased you've come."

Weaver was now looking distressed. I gripped his arm and pointed to his cabin. "Take it easy," I said. "Go and sit down; I'll get someone to fetch you a cup of tea."

I gave some instructions to a young labourer, and walked over to the scene of the accident. The rest of the men had drifted away, and I knew it would be some time before that particular job could be re-organised. A severe accident like this leaves a raw feeling for many hours.

While I was studying the wreckage, Mr. Collins, the Resident Engineer, came across the site in his car and presently joined me.

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

I gave him the information I had obtained from Weaver, and he shook his head.

"What on earth were they playing at?" he demanded. "Weaver's usually a dependable type—after all, it wasn't a complicated job."

"True enough; but accidents nearly always happen on simple jobs—usually because people are off their guard. I suppose it's a matter of carelessness, although in this case, I'm inclined to imagine there's been a certain lack of know-how."

"In what way?"

"Just before you arrived I had a look at the tackle which came down off the roof. Weaver's pal Arthur had rigged up a sheers with some scaffold tubing. First he built a low A-frame, then he laid a 20ft. tube over it and clipped it to the apex. That came down all in one piece, so I was able to go over it with the tape. The part of the tube which jutted over the wall was 4ft. from the connection, so there was a length of 16ft. behind the A-frame, tilted down to the surface of the roof."

"And how was that secured?"

"They had placed some old sacks, filled with about 2cwt. of sand over the end."

"Let me see. On this kind of rig we usually allow a counterbalancing moment of 4 to 1, don't we? That means—um—a limit of 2cwt. on the burden end of the pole. And that's exactly what there was."

"Yes, but in addition there was the pull on the fall rope."

"Ah, yes. This is a pair of two-and-one sheave blocks, so there must have been an effort of about 75lb. on the tail rope. Probably another cwt. when we include friction loss. Altogether, about 3cwt. on the end of the pole—instead of 2. Even so, there was still a fair margin of safety left."

"It should have been sufficient—even allowing for a snatch on the tail line," I replied. "The conclusion must be that the ballast wasn't properly secured to the pole—in fact, it's most unlikely that it was carrying anything like the whole load of sand. If we halve the load, the effective anchorage is only one cwt., so that the rig would be good for only about 80lb. Here is a good illustration of the importance of having proper supervision when tackle is being fitted up—even for a simple job like this. Most of the men rely upon their experience and 'feel' for lifting appliances, but just occasionally they come a cropper."

Clearly some tightening-up would have to be done in this respect.

Weaver came over to tell us that a message had just arrived from the hospital. The injured man had regained consciousness and the report was favourable. We all felt distinctly better at that piece of news.

## NEED FOR MULTI-STOREY GARAGES IN LONDON

**T**HE General Purposes Committee of the L.C.C. have invited discussions with the Metropolitan Boroughs Standing Joint Committee to urge their view that there should be a comprehensive plan for a phased provision of multi-storey garages in central London.

This follows a study of the summary of the report of the Committee on London Roads (Nugent Committee) which estimated that about 50,000 vehicles were daily parked on the streets of central London, and that the broad effect of clearing all parked vehicles off the streets except at parking meters might be to increase their traffic capacity by 15 to 25 per cent. The average cost of providing off-street garage space in central London was estimated at about £1,500 a car space and the economic charge might well be 12s. 6d. or more a day.

The council's representatives on the Nugent Committee had stated, in a reservation to the report, that full provision for all the present long-term parkers in inner London could involve car parking for 30,000 cars involving capital investment of some £45m. and even a reduced programme could involve heavy commitments for the local authorities concerned.

They urged the view that the need for a comprehensive system of car parks was so urgent that a "shot in the arm" policy was needed and that the Government should be prepared to make some contribution to the local authorities undertaking the initial financial risks which an enterprise of this magnitude involved.

## "PREVAILING PRICES UNREALISTIC"

Chairman and managing director of Constable, Hart and Co., Ltd., Mr. H. E. Snow, has told shareholders in his annual report that he could not be any more optimistic about profits in the future than he was a year ago.

Prevailing prices for the larger type of contracts, of which motorways formed the major part, were so unrealistic that profit margins were negligible and were unlikely to contribute materially to the final result of the group, he states. These conditions were likely to continue for some time.

"Our experience on the larger type of contract has been most disappointing," says Mr. Snow.

"The N.A.T.O. airfield contract in West Germany did not prove as satisfactory as was at first anticipated, but it was our first venture abroad and provided very useful experience of the problems entailed in that type of work, which may be of benefit in the very near future. In regard to our work on the Ross Spur Motorway, changes in specification have caused delays and increased our costs."

## CLERK OF WORKS DIPLOMA EXAMINATION

The 1960 A.B.T. Clerk of Works Diploma Examination will be held on Thursday, Friday and Saturday, April 21, 22 and 23, 1960. The written examination will last for 2½ days with an oral examination during the last session.

Candidates are not required to be members of the Association and non-members participate on the same terms as members. All applicants must have had approved experience of at least 10 years as a skilled building operative or supervisory technician, of which five years must have been spent on the site.

Copies of the syllabus and application form, which must be returned by Saturday, April 9, 1960, may be obtained free of charge from the General Secretary, Association of Building Technicians, 156 Waterloo Road, London, S.E.1. Question papers for previous years are also available, price 2s. 6d. per set post free.

## FOR THE DIARY

Feb. 16.

Annual dinner of the Institute of Builders, Guildhall, London, E.C.1. 7.15 p.m.

Feb. 17.

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Lightweight Concrete Aggregates," by Prof. R. H. Evans, C.B.E., D.Sc., Ph.D., M.I.C.E., M.I.Mech.E., M.I.Struct.E. Meeting of the London Building and Engineering Contractors Accident Prevention Group at 97 Horseferry Road, London, S.W.1, 2.30 p.m. "Erection and Dismantling of Heavy Plant and Equipment"

Feb. 17 and 18.

General building safety training course at the Merseyside Building Safety Training Centre, Stopgate Lane, Liverpool, 9.

Feb. 23.

Institution of Plant Engineers. Meeting at the Royal Society of Arts, John Adam Street, London, W.C.2, at 7 p.m. "Some Problems in the Design of Large Rocket-Engine Test Beds," by R. H. B. Forster, B.Sc., M.I.Mech.E., chief engineer, and L. Breen, senior engineer, British Oxygen Wimpey, Ltd.

Feb. 24.

Meeting of the Institution of Civil Engineers (East Midlands Association) at Herbert Schofield Building, Loughborough at 6.15 p.m. "The Preparation of Drawings and Contract Documents for Major Road Works, including Aerial Surveying," by R. Truswell, B.Sc., and G. Farrimond, B.Sc.

## Trade Section

## MYERS' NEW TRACK RECONDITIONING SHOP

### Plant Managers' Visit to Windsor

**T**HE service facilities available at the Windsor depot of Fred Myers, Ltd., Caterpillar dealers, were inspected by contractors' plant managers recently when the company held their first "open house" at Windsor. Of special interest was the new track reconditioning shop.

After short introductory talks given by Mr. A. N. Dixon, vice-chairman, Mr. P. Hamilton, managing director, Mr. P. A. Kingston, general parts manager and Mr. T. Stainton, general service manager, the party toured the track reconditioning shop, the service department, and the parts department.

#### Track Reconditioning Shop

This department has had recently installed a new American manufactured L. & B. electronically controlled, fully automatic double headed link welder and a Rodgers twin head track press and the party was able to see these and other pieces of equipment in operation.

#### L. & B. Twin Head Welder

The track before being laid on the bed is thoroughly cleaned on the surfaces in contact with the bed, i.e., the bolting faces or grouser edges. On being laid it is set up to ensure true alignment. Wooden blocks are inserted in the spaces between the bushing to conserve the agglomerated flux. The photo electric cell interrupters are then adjusted to suit the particular style of track. The machine after adjusting basic wire feed and travel speeds is ready to start.

If badly worn links exist with serious depressions in them the first operation is to restore them to flat surfaces. On completing this operation the weld head passes along the entire track depositing on each pair of links a bead of weld approximately 1/4 in. wide by 1/4 in. deep. These dimensions are approximate and vary according to the weld pattern required. On completion of the first pass the welding head is returned to the opposite end of the carriage where after moving the wire nozzles inward the welding process starts again. This opera-

tion continues until the track links are covered with a weld of uniform depth. Most tracks require a second layer of weld before original height of link is reached. The weld process is the same as that of the first layer. Where tracks are very



General view of servicing department

badly worn it may be necessary to apply a third layer.

#### Rodgers Twin Ram Track Press

If the track for rebuilding is received with grouser shoes fitted the operation mentioned above takes place without their removal. On passing to the track press for

left and right hand links are pressed on simultaneously. In assembly the links are pressed onto pin and bush. This continues until the track is assembled to correct length.

Limiting nuts, which are adjusted for each type of track, prevent links being pressed too far and at the same time accurately "space" the links in readiness for plate fitting.

#### Roller and Grouser Rebuilding

Other work carried out in this shop includes roller and grouser rebuilding.

All track rollers and idlers are rebuilt on a submerged arc machine. A combination of rotation and feed speeds produces a finish which is quite satisfactory for tractor operation without machining the tread. Small size rollers may require turning because of the difficulty in applying a neat continuous weld caused by insufficient parent metal to dissipate heat.

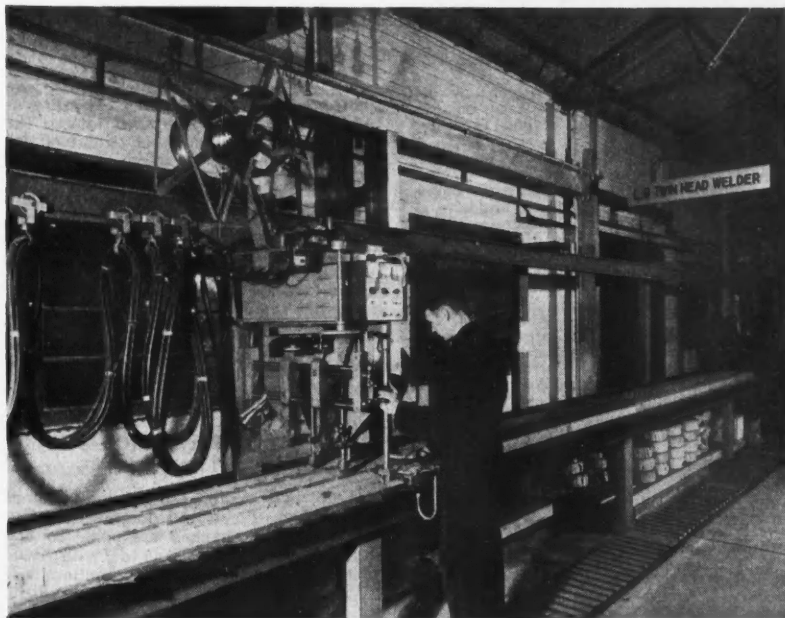
All grousers are first trimmed on the profile cutter. This is particularly necessary on hardened grousers where satisfactory welding can only be accomplished by welding under the limit of hardness. Correct size of pre-formed welding strip is then selected—one of three—and after being cut to approximate length on the shearing machine it is "tacked" in position. Submerged arc weld is then applied to both sides of strip.

A general welding section, which undertakes oxy-acetylene cutting and welding and hand arc welding, re-rims sockets; sprocket rims are available for all sizes of tractors.

#### Workshop Facilities

One of the important facilities offered is a service exchange of complete diesel

(Concluded on next page)



L. and B. twin head welder



## Trade Section

## NEW COMPANIES

*The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—*

Brian Vincent and Son, Ltd., 45 Abbey Road, Enfield, Middx., builders. £1,000. Directors: Brian F. Vincent and Doris E. Vincent, 45 Abbey Road, Enfield, Middx.

C. Hudson and Sons, Ltd., 226-232 Pitfield Street, London, N.1, builders. £1,500. Directors: Chas. J. Hudson, 6 Dorchester Avenue, Palmers Green, London, N.13; Geo. J. Hudson, 92 Sheldon Road, Edmonton, London, N.18; Albert W. Hudson, 5 Denton Road, Edmonton, London, N.18.

Frederick Brickell and Sons, Ltd., 84a Oakley Lane, East Oakley, Basingstoke, Hants, builders and contractors. £4,000. Directors: Frederick J. Brickell and Mrs. Clarissa F. V. Brickell, The Sycamores, Oakley Lane, East Oakley, Basingstoke.

George Watson (Builders), Ltd., 100 Wulfric Road, Sheffield, 2. £600. George H. Watson, 100 Wulfric Road, Sheffield, 2, signs as director.

Preston and Owens, Ltd., Rainbow Street, Crewe, builders. £10,000. Directors: Edward O. Owens, Beyston, 6 Woodland Avenue, Nantwich; Benjamin P. Rogers, Maehill 305b Nantwich Road, Crewe.

Reddish Demolition, Ltd., 8 Tib Street, Manchester, 4, demolition and general contractors. £2,000. Directors: Arthur J. Clarke, 60 Clough Road, Manchester, 9; Christopher McCabe, Beech Lawn Hotel, Dudley Road, Whalley Range, Manchester.

L. and G. Contractors (Sussex), Ltd., 52 Gaisford Close, Worthing, builders. £100. Directors: Sidney Lovegrove, 166 Dyke Road, Brighton; James B. Godfrey, 80 Stapley Road, Hove, 4.

John Thom (Overseas), Ltd., 20 Albert Embankment, S.E.11. To carry on business of drilling, shaft sinking, well sinking, tunnel driving, boring, cementation, freizing, bridge building, etc. £100. Directors to be appointed by subscribers. Subscribers: John C. Collins, 25 Malford Grove, E.18 (clerk); John M. Carr, 34 Copthall Avenue, E.C.2 (solicitor).

J. A. Allen (Builder), Ltd., Spring Bank, Defford, Worcs. £100. Directors: John A. Allen and Mrs. J. Allen, Spring Bank, Defford, Worcs.

Archway Plant Services, Ltd., 64 Archway Road, N.19, industrial and agricultural plant and machinery hirers and dealers, etc. £100. Directors: John J. Curran and Mrs. Maureen Curran, 29 Baronsmere Road, N.2.

Norleigh Construction, Ltd., 79 Piccadilly, Manchester, 1, builders. £1,000. Directors: Gerald R. Lord, Raglan House, Raglan Road, Brooklands, Ches.; Bryan T. Smith, 4 Conway Road, Urmoston, Lancs.

Parfitt (Pulborough), Ltd., 29 The Spinney, Pulborough, Sussex, builders and decorators. £600. Directors: Philip W. Parfitt, 20 The Spinney, Pulborough, Sussex; Joseph Wilson, 41 Rivermead, Pulborough, Sussex; Gilbert G. Chambers, Dollacott, Manser Road, Walberton, Sussex.

Sullivans (Derby), Ltd., builders. £1,000. Directors: Wm. Sullivan, Junr., 6 Roehampton Drive, Derby; Violet Sullivan, 567 Burton Road, Littleover, Derby.

Cameron Bros. (Builders and Decorators), Ltd., 73 Ynyshir Road, Ynyshir, Porth, Rhondda. £2,000. Directors: Emlyn G. Cameron, 73 Ynyshir Road, Ynyshir, Porth, Rhondda; Leonard E. Cameron, 15 Aberlechan Road, Wattstown, Rhondda.

Briere (London), Ltd., 56 Victoria Street, S.W.1, crane and metal workers, etc. £100. Permanent directors: Gerard R. V. Briere and Josiane J. A. Briere, St. Giles Lodge, Chalfont St. Giles.

Victor Denton, Ltd., builders. £3,000. Directors to be appointed by subscribers. Subscribers: Victor C. Denton and Mrs. Rhoda Denton, 21 Avondale Road, Gorleston-on-Sea, Great Yarmouth.

Bernard Holt, Ltd., manufacturers of and dealers in precast and reinforced concrete products, etc. £2,000. Permanent directors: Bernard Holt and Mrs. E. F. Holt, 29 Robins Wood Road, Aspley, Nottingham.

Brown and Root (U.K.), Ltd., builders. £100. Directors to be appointed by subscribers. Subscribers: S. A. Shaw (solicitor) and Jeremy Waddell (clerk), St. Swithins House, Walbrook, E.C.4.

The name of Mullen-O'Dea and Co., has been changed to John O'Dea, Ltd., their new address being 145 Otley Old Road, Lawnswood, Leeds, 16. Tel: Leeds 673032.

Rose Green Concrete Co. (Bristol), Ltd. £100. Directors not named. Subscribers: Percy O. Ansell (commercial manager) and George A. Corderoy (assistant manager), 116 Chancery Lane, W.C.2.

## TRADE NEWS IN BRIEF

A weight calculator, made of cardboard and operated on the slide-rule principle, is available from **Uddeholm, Ltd.**, Northwood Street, Birmingham, 3, for facilitating the calculation of strip steel.

**W. J. Brooker, Ltd.**, 28 Westminster Bridge Road, London, S.E.1, announce the formation of an associated company, **Brook-Blast, Ltd.**, to specialise in on-site shot blasting, metal spraying and protective coating operations.

"Lifting for Industry," is the title of a 16mm., 40-minute coloured film produced for **Tarslag, Ltd.**, Rotherham, by **Wrigleys, Ltd.**, Rotherham. It illustrates the savings which may be made by planning a heavy construction or installation job according to the equipment available.

**Rapid Metal Developments, Ltd.**, have opened a new depot at Bennett's Yard, Spurlings Lane, Wallington, Fareham, Hants. Tel: Fareham 2017.

A new coloured brochure describing their derrick cranes has been published by **John M. Henderson and Co., Ltd.**, King's Works, Aberdeen.

Information on the bonding of Rigidex high density polythene is given in Technical Information Sheet No. 9, issued by **British Resin Products, Ltd.**, Devonshire House, Piccadilly, London, W.1.

The large quantities of engineered timber, both bolted and connected and glued-laminated specified for structures of all types are represented in a series of booklets, specification sheets and load tables available from the **Rainham Timber Engineering Co., Ltd.**, Ferry Lane, Rainham, Essex.

**Metalock (Britain), Ltd.**, have opened an office at Windsor Chambers, Bearwood Road, Smethwick, Birmingham, 41. Tel: Bearwood 2799.

**The Lightfoot Refrigeration Co., Ltd.**, have opened a new branch office at Canute Road, Southampton.

A booklet giving a full explanation of the functions of BCL Blanket Dampcourse—a low-cost, waterproof and durable material, claimed to overcome the problems of moisture penetration in concrete house-rafts—has been published by **British Cellophane, Ltd.**, 9 Henrietta Place, London, W.1.

**Mercantile Credit Co., Ltd.**, have opened new branch offices at 2 Wynnstay Road, Colwyn Bay, and Wycombe House, Aversham Hill, High Wycombe.

**Thos. W. Ward, Ltd.**, Albion Works, Sheffield, have produced a new leaflet on their Compri-Strip material for sealing expansion joints.

Two new brochures featuring the Allis-Chalmers HD.21 and HD.16 crawler tractors are available from **Mackay Industrial Equipment, Ltd.**, Central way, Feltham, Middx.

The latest edition of "Concrete Facing Slabs" is now available, free of charge, from the **Cement and Concrete Association**, 52 Grosvenor Gardens, London, S.W.1.

**Edward Wood and Co., Ltd.**, have transferred their London office to 78 Buckingham Gate, London, S.W. Tel: Abbey 1948-9.

Two publications—"The Measurement of Pore Water Pressures in Earth Dams and Road Embankments" and "Corrosion Surveys"—have been received from **Soil Mechanics, Ltd.**, 65 Old Church Street, London, S.W.3.

**Rockwell, Ltd.**, Commerce Way, Croydon, have produced a new brochure which describes their recently introduced Comet process—semi-automatic welding with CO<sub>2</sub> shielding.

A change of title has been announced by the Hire and Sales Division of **Scaffolding (Great Britain), Ltd.** It is now known as **SGB Building Equipment Division**.

The management and staff of **United Dominions Trust's** Metropolitan regional office have been moved to new offices at 199-201 Marylebone Road, N.W.1. Tel: Ambassador 1272.

(Concluded from previous page)

engines, starting engines, clutches, torque converters, fuel injectors, transfer pumps, water pumps, etc.

Engines are rebuilt to Caterpillar standards and are dynamometer tested. A three month warranty accompanies all service exchange engines.

Where an engine is required immediate dispatch or installation of the unit is arranged. No charge is made at this stage. On receipt of the worn out or defective engine a rebuild takes place and the customer then receives an invoice for repair. A range of engines to fit the D2, D4, 955, D7, D8, D9 and DW21 is offered.

## Parts Facilities

Each depot, at Windsor, Brentwood and Ashford, Kent, has its own parts store, its own parts manager and is a self-contained unit, responsible for supplying parts for customers' machines in their particular territories. Inventories are based on sales histories and parts sales potential; there is no financial limit imposed.

Inspecting the parts store and showrooms the contractors' plant managers were told that over the last few years the Windsor Depot had given an average 91 per cent. service efficiency direct from stock—on every order of 100 items, 91 complete in quantity had been shipped direct from stock. The remainder had been obtained from other depots, other U.K. dealers or from the stocks held at Leicester by the Caterpillar Tractor Co. Occasionally they had to employ emergency methods of bringing in parts by air or fast steamer; each of these sources was in direct communication with the depot by teleprinter network. Although stocks were built up on sales histories the company took pride and care to cater for new equipment, and they already held parts for the latest 619 motorised scrapers and more were on the water.

## New Machines

During the visit the party was able to see a number of new machines including the 619 two-wheel tractor and 422 scraper; the Glasgow manufactured D8 series "H" tractor, and the D7 and D6 tractors.

The 619 and 442 tractor-scraper combination is the latest rubber-tyred addition to the Caterpillar motor-scraper line, and was described in *The Contract Journal* on April 30 last. The scraper capacity is 14 cu. yd. struck and 18 cu. yd. heaped and powered by 225 b.h.p. turbo-charged engine. The 442 scraper is British built at Caterpillar's Newcastle plant.

## INDUSTRIAL FAN UNIT

General Trade Equipment, Ltd., 89-92 Seymour Place, London, W.1, are to market a new industrial fan unit with open wire spiral-type heating elements operating at black heat under all conditions. The thermostat can be hand-set to cut off the current automatically if overheating occurs.

As an additional safety precaution the fan units are fitted with suspension straps, deflector louvers and ½ in. wire mesh screens. The direct starting motor is fitted with resilient mounted ball-bearings. A detachable air filter can also be fitted.

The fans are supplied in seven different sizes, the smallest with a five-kW output (B.Th.U. per hour 17,000) and the largest with a kilowatt output of 40 (B.Th.U. per hour 136,000).

## ARUP ACQUIRE TWICKENHAM PLANT

Arup and Arup, Ltd., have acquired Twickenham Plant and Engineering Co., Ltd., and have changed the name to The Hercules Plant Hire Co., Ltd., with headquarters at 45 Hornsey Road, London, N.7.

Members of the Board of Hercules Plant are A. S. Arup, J. D. Arup, C. E. Hilditch and A. E. Sancto.

# Current Constructional Activities

## PROJECTS • CONTRACTS • AWARDS

**THIS** editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

### BUILDING AND DECORATING (See also Housing Schemes)

**Aberdeen.**—City Council have approved final plans for a technical college in Spring Garden. Estimated cost £1m.

**Abingdon, Berks.**—R.D.C. have approved the development of site at rear of Eims Parade, Botley, including the provision of a community centre. Estimated cost £35,000 to £40,000.

**Aycliffe, Dur.**—Cordingley and McIntyre, Owengate, Durham City, are the architects for factory additions on Aycliffe trading estate for Kleemann Plastics, Ltd., and E.N.V. Engineering Co., Ltd. No contracts let.

**Basingstoke, Hants.**—B.C. recommended to prepare detailed plans and apply for sanction to borrow £225,862, for the erection of municipal buildings.

**Belford, Northumb.**—R.D.C. to spend £4,000 on the erection of new Council offices. Plans to be prepared by the Council's architects, Richard Turley and Associates, 46 Jesmond Road, Newcastle upon Tyne.

**Berwick, Northumb.**—Newcastle upon Tyne Hospital Board to proceed with plans for ward block at Berwick Infirmary.

**Bexley, Kent.**—B.C. recommended to prepare revised plans for the proposed boathouse and cafe in Danson Park.

**Birmingham.**—Chamberlain, Powell and Bon, Avenue Studios, 15 Sydney Mews, Fulham Road, London, S.W.3, are architects, and Davis, Belfield and Everest, 9, Ashley Place, London, S.W.1, the quantity surveyors, for the erection of a physical education sports centre at Edgbaston, for the University of Birmingham. Estimated cost £550,000.

**Blaydon, Dur.**—Mr. Fillis, Newburn Road, Throckley, seeking planning permission to construct a factory on a former football ground near Patterson Street.

U.D.C. have approved plans for the erection of new premises, for the Vale of Derwent Social Club, Rowlands Gill. The scheme has still to be approved by the county planning authorities. The architect is J. M. Angus, 3 Gallowgate, Newcastle upon Tyne.

**Brentford and Chiswick, Middx.**—C.C. recommended to authorise the second instalment of adaptation, etc., at Staveley Secondary Girls' School. Estimated cost £41,732.

**Brighton, Sussex.**—B.C. recommended to invite tenders for the erection of an occupation and training centre at the north-east side of Coldean Lane and five brick bus shelters at Bexhill Road, Birdham Road, The Avenue, Carden Hill and Dyke Road, estimated cost £51,000 and £700 respectively; subject to Ministry approval, invite tenders for construction of an old people's home at Roedale Nursery site.

B.C. recommended to approve plans for a new warehouse, extension of existing warehouse, and installation of petrol tanks at 14 Clifton Hill, for Stapleton Brothers, Ltd.; erection of eight shops with four flats over at the junction of Saldean Vale and Westfield Avenue for Baylis and Co. (Builders), Ltd., 37 Upper St. James Street; light industrial factory at South Side, The Hyde, Bevendean, for West Instruments, Ltd., 51 Regent Street; outline application for rebuilding the Albion Public House at Albion Street, for Tamolins, Ltd., Phoenix Brewery, 1 Richmond Terrace; licensed premises, restaurant, garage, lock-up shops and 48 flats at the Albemarle Hotel site, Marine Parade, for the Hammerson Group of Companies, Quadrex House, Park Lane, London, W.1.

**Burnley, Lancs.**—Work expected to commence this year on the erection of a new

parish hall for St. Matthew's. Estimated cost £8,500.

**Buxton, Derbys.**—B.C. recommended to approve plans and invite tenders for the erection of public conveniences at Water Street and Harpur Hill.

**Camberley, Surrey.**—C.C. recommended to approve sketch plans for a new four-form entry secondary mixed school at Old Dean County Secondary School. Estimated cost £233,172.

**Carlisle, Cumb.**—F. G. Jackson, Lowther Arcade Chambers, Lowther Street, is the architect for redevelopment scheme at 25-37 Castle Street for a new company. The proposal includes erection of shops and offices, printing works, warehouses, etc.

**Chertsey, Surrey.**—C.C. recommended to approve sketch plans for extensions to provide additional dormitory, teaching and staff accommodation and gymnasium at Ottershaw School. Estimated cost £60,885.

**Chester.**—City Council recommended to approve draft layout of land at Blacon Camp including the provision of a shopping centre.

**Chester-le-Street, Dur.**—Plans are being prepared for the construction of an office block, for the Caterpillar Tractor Co., Ltd. The architects are Wilson, Hamilton and Wilson, 5 Woodside Terrace Glasgow, C.3.

**Chorley, Lancs.**—Parochial Church Council have approved the erection of a new vicarage at St. John's Whittle-le-Woods. Estimated cost £8,000.

**Colwyn Bay, Denbighs.**—B.C. have approved scheme for extensions to the aviary in Eirias Park by the development of the terraced enclosure. Estimated cost £1,500.

**Croydon, Surrey.**—B.C. recommended to spend £100,000 per annum on the modernisation of pre-war dwellings during the years 1960-61 and 1961-62.

**Croydon, Surrey.**—B.C. recommended to approve adaptations to Coombe Cliffe House, Coombe Road. Estimated cost £9,000.

**Darlington, Dur.**—The Wear, Tees and Eskdale Regional Group of the Youth Hostels' Association are raising funds for the rebuilding of the Teesdale centre at Langdon Beck. The cost will be £9,000.

**Durham.**—R. E. Coleman, Ltd., 63 Western Hill, are to erect offices at Carrville. City Council planning new conveniences costing £1,600.

**Elstree, Herts.**—R.D.C. hope to invite tenders this year for the erection of a public hall and swimming pool opposite the police station in Elstree Way. Estimated cost £236,000. Sketch plans have been prepared.

**Enfield, Middx.**—C.C. recommended to authorise the erection of a school meals kitchen at Chase Boys' Secondary School. Estimated cost £5,950.

**Eston, Yorks.**—Richard Dawkins, 14 Thirlmere Crescent, Normanby, is seeking permission to erect licensed premises in Normanby Road, South Bank-on-Tees.

**Farnham, Surrey.**—C.C. recommended to approve sketch plans for extensions to provide additional studio accommodation at the School of Art. Estimated cost £11,482.

**Felling, Dur.**—A contract will be let soon for the erection of R.C. church and presbytery at Colegate Lane, Leam Lane estate. The architect is D. Brown, 10 Lambton Road, Jesmond, Newcastle upon Tyne.

**Feltham, Middx.**—C.C. recommended to approve the erection of a home for severely disabled sighted persons at Sparrow Farm. Estimated cost £91,715.

**Garsthead, Dur.**—Hammonds United Breweries, Ltd., Manchester Road, Bradford, are to erect public-house to be known as the Wrekendike at Lancaster Avenue, Wrekenton.

**Gillingham, Kent.**—Bowater-Eburite Flexible Packaging, Ltd., Bowater House, Knightsbridge, London, S.W.1, have acquired 18 acres of land at Hoath Lane for the erection of a factory.

**Goole, Yorks.**—Crendon Concrete Co., Ltd., Aylesbury, Bucks., to acquire land on the Rawcliffe Road industrial estate for factory.

**Halifax, Yorks.**—Working drawings are being prepared for erection of a new C. of E. Secondary Modern School, for the Governors of Holy Trinity C. of E. Transferred Modern School. Jones and Stocks, architects, 7 Blenheim Terrace, Leeds, 2; Eric Walmsley and Co., quantity surveyors, 19 Bull Green, Halifax; R. W. Gregory and Partners, heating consultants, 1 Brazenose Street, Manchester, 2. Estimated cost £102,609.

**Harrogate, Yorks.**—Ministry have granted planning permission to Mercantile Credit Co., 132 Ardon Street, Leeds, 1, for erection of a block of offices at the east end of Victoria Avenue, and to the Sons of Temperance Friendly Society, 77 Gt. George Street, Leeds, 1, for conversion of the Balcombe Private Hotel, 21 Victoria Avenue into a national headquarters.

Leeds Regional Hospital Board have approved extension of the physiotherapy department at Harrogate General at a cost of £15,000; preparing sketch plans for a new operating theatre suite and the planning of a new pathology department.

**Harrow, Middx.**—C.C. recommended to approve the extension of Roxeth Manor Secondary Boys' and Girls' Schools. Estimated cost £171,773.

**Hatfield, Herts.**—R.D.C. have approved in principle scheme for improvements to pre-war old people's flats; are considering plans for the erection of a block of two-bedroom flats or maisonnettes at the junction of Birchwood Avenue and Birchwood Close.

**Hebburn, Durham.**—J. T. Bell and Sons, Market Street Chambers, Newcastle upon Tyne, have offered to construct a shopping centre in the Station Road area, and the matter is being considered by the U.D.C.

**Hersham, Surrey.**—C.C. recommended to approve sketch plans for adaptations to hatted classroom block, etc., at Rydens County Secondary School. Estimated cost £4,287.

**Heywood, Lancs.**—Co. E.C. have approved scheme for erection of a new scullery and cloakroom at Bullough Moor County School.

**Hinckley, Leics.**—Sheffield Regional Hospital Board have approved scheme for provision of maternity unit on land behind Hinckley and District Hospital in Mount Road. Estimated cost £60,000.

**Ipswich, Suffolk.**—E.C. have approved a proposal that a swimming bath, 60ft. by 30ft., be incorporated in the design for the new Chantry Secondary Modern School.

**Leigh, Lancs.**—Co. E.C. have approved spending of £1,450 on extensions and improvements to kitchen at Boys' Grammar School.

**Lepton, Yorks.**—Parochial Church Council have approved the erection of new parish hall. Plans to be prepared. Estimated cost £12,000.

**Lytham St. Annes, Lancs.**—B.C. recommended to approve in principle the erection of public conveniences at Stanner Bank corner of Fairhaven Lake.

**Mansfield, Notts.**—B.C. recommended to approve scheme for the provision of new back doors for 90 prefabricated bungalows at Goodacre housing estate, estimated cost £1,350; plans for the erection of a boys' secondary technical school at Sherwood Hall Road, for Co. E.C.

**Middlesbrough, Yorks.**—Parks Committee have approved scheme for the rebuilding of Marton Hall in Stewart Park. Estimated cost £32,000.

The Sutton Dwellings Trust are to erect 31 houses near Freemantle Crescent to plans by C. S. Errington, 46 Grainger Street, Newcastle upon Tyne. Plans have been prepared by Kitching and Co., 21 Albert Road, for abutments block at the Docks, Middlesbrough sidings, for Henderson Clarke; developments at Linthorpe Road and Bottomley Street for hotel, for J. Eadie, Ltd.; and alterations and additions in Roman Road, for the Masonic Hall (Middlesbrough), Ltd.; alterations and additions are proposed to the North-Eastern Railway (Middlesbrough), Ltd., to plans by N. H. Cox, Vaux and Associated Breweries, Ltd., Sunderland.

B.C. recommended to approve the erection of children's home at Croft Avenue, Acklam. Estimated cost £5,400.

**Mitcham, Surrey.**—C.C. recommended to approve sketch plans for extensions to provide additional practical accommodation at Weston Road County Secondary Boys' and Girls' School. Estimated cost £44,371.

**Morpeth.**—Newcastle upon Tyne Hospital Board are to erect tea room and shop at St. Mary's Hospital, Stanington.

**Newcastle upon Tyne.**—G. A. Dunn and Co., Grainger Street, have acquired the adjoining Grainger Cinema for shop extensions.

New workshops and offices are proposed in George Street, for Black and Decker, Ltd. (the architect is M. Gatoff, 26 Mosley Street, Newcastle upon Tyne; C. Solomon 30 St. Mary's Place, is the architect for the



conversion of public-house in New Bridge Street into shops; Newcastle Breweries, Ltd., Haymarket, are to convert factory in Bath Lane Terrace to a bonded store, warehouse, canteen and offices, and have prepared their own plans; drying rooms are to be erected at Elswick Leatherworks to plans by L. J. Couves and Partners, Grainger Chambers, Hood Street; Freeman Morrison, Ltd., 18 Nixon Street, are to erect a single-storey warehouse at 961-73 Scotswood Road and have prepared their own plans.

John T. Bell and Sons, Market Street, propose erection of a hotel to cost between £750,000 and £1m. at the corner of Northumberland Road and the proposed new Princess Street. The project has still to be considered by the Planning Committee.

E.C. intends using an alternative site, to one in Bath Lane, for extensions to the College of Further Education, which will cost £268,000.

**Nuneaton, War.**—B.C. recommended to prepare scheme for the provision of 30 garages at housing estates and repair and improvement of 38-64 Bottrill Street.

M.E. have approved plans for extensions to Red Deep's School, for B.C.

**Ormskirk, Lancs.**—Parochial Church Council have approved the erection of a new church school at Rufford. D. Bradshaw and E. I. Linton, 10 Dale Street, Liverpool, 2, are the consulting architects. Estimated cost £22,000.

**Ossett, Yorks.**—B.C. recommended to approve in principle sketch plans for erection of library building on site of present library in Station Road. Estimated cost £30,000.

**Penrith, Cumb.**—Extensions proposed to Newton Rigg Farm School, for the Cumberland and Westmorland Education Committees.

**Prudhoe, Northumb.**—Working drawings are being prepared for further extensions costing £430,000 to Prudhoe and Monkton Hospital, for Newcastle Hospital Board. It is not expected that actual constructional work will begin until September. The work is divided into two sections. Plans for one section are by the Board's Chief Architect (P. H. Knighton), and S. W. Milburn and Partners, 9 Esplanade, Sunderland, are architects for the other section.

**Scarborough, Yorks.**—Scarborough Co-op Society, Ltd., are to erect dairy and funeral furnishing departments at Seamer Road and have prepared their own plans; plans have been prepared by Broadbent, Thompson and Wilson, Hillary Chambers, Hillary Place, Leeds, 2, for the erection of a depot on an industrial site at Queen Margarets Road for T. Wall and Sons, Ltd., London; G. W. Alderson, 4 Pavilion Terrace, is the architect for a new machine room in Melrose Street, for E. T. W. Dennis and Sons, Ltd., J. Hellewell, 7 Green Lane, Newby is the architect for dressing rooms for the Scarborough Rugby Union Football Club.

**Seaham, Dur.**—U.D.C. planning the erection of public conveniences in Station Road and at Seaham Dene. No contracts let.

**Sedgefield, Dur.**—R.D.C. proposes public conveniences at Front Street, Bishop Middleham.

**Snaith, Yorks.**—West Riding C.C. have approved the purchase of land to the south of Field Road for proposed junior and infants' school.

**Southampton.**—B.C. recommended to approve sketch plans for Hightown Secondary School and new housecraft room, etc., at Mount Pleasant Secondary Girls' School; appoint E. W. H. Gifford, 16 Carlton Crescent, as consulting engineer for the design of the structure and authorise the Borough Architect to prepare working drawings and bills of quantities and invite tenders for the erection of the branch library for Harefield and Thornhill housing estates. Estimated cost £25,000.

B.C. recommended to appoint E. M. Gallo-way and Partners, 10 Portland Street, W. H. Saunders and Son, 22 Brunswick Place, Sutcliffe, Brandt and Partners, 57 Above Bar, and Fowler, Grove and Haggard, 140 Lodge Road respectively, as architects, for improvements to lavatories at St. Jude's C.E. Infants', Freemantle C.E. Junior and Infants', Shirley Warren Infants' and Shirley Warren Junior Schools; Weston Burnett and Thorne, 41 Westwood Road, as architects, and MacPherson and Partners, Freemantle Lodge, Foundry Lane, as quantity surveyors, for a new lavatory block and improvements to sanitary facilities at Ascupart Junior and Infants' School; E. Morley-Smith, 17 Cumberland Place, as quantity surveyor, for three classroom extension at Weston Park Infants' School; invite tenders from selected contractors for the precast concrete structure of Glen Eyre Boys' School; approve scheme for the construction of a rescue training set, estimated cost £4,000.

**Staines, Middx.**—C.C. recommended to approve the extension of the Abbotsford Secondary Boys' and Girls' Schools. Estimated cost £110,915.

**Stockton-on-Tees, Dur.**—M. Trotter, 134 High Street, is the architect for warehouse and

office at Brunswick Street, for T. Turnbull, Green Lane.

**Sunderland, Dur.**—Corporation Seaside Development Committee is including £80,000 in its annual estimates for the erection of a building at Seaburn which could be used for an ice-rink or a cafeteria. The sum of £25,000 has also been earmarked for a commencement on the £75,000 Roker blockyard redevelopment scheme.

**Sunderland, Dur.**—B.C. recommended to carry out extensions to Bishopwearmouth Crematorium. The work will include new furnace room with cinerary unit, reception chamber and small chapel of rest. Estimated cost £14,100.

**Sutherlandshire.**—C.C. recommended to approve an £834,000 school building and improvement scheme for 1960-63, including new senior secondary school at Golspie, £248,000, and at Dornoch, £230,000; a school hostel for boys in Golspie, £65,000, and an assembly hall and dining hall at Helmsdale Junior Secondary School, £30,000.

**Sutton, Surrey.**—B.C. have approved plans for extensions at 41-43 High Street, for Barclays Bank, Ltd., 54 Lombard Street, London, E.C.3.

**Swansea.**—Cyril A. Hughes and Son, 51 Walter Road, Swansea, are the architects in collaboration with G. R. H. Rogers, company architect, for the proposed erection of The Wildfowler public house at Clase housing estate, Morriston, for Wm. Hancock and Co., Ltd., the Brewery, Cardiff (scheme in early stages).

**Twickenham, Middx.**—C.C. recommended to approve the proposed erection of Broom Road Secondary School. Estimated cost £230,175.

**Tynemouth, Northumb.**—E.C. have decided on a site near Billy Mill reservoir for the erection of the proposed Whitehouse County Primary School. The architects are J. G. Cowe and Son, Claremont Chambers, Claremont Place, Newcastle upon Tyne.

Simpson, Lawson and Partners, Emerson Chambers, Blackett Street, Newcastle upon Tyne, are the architects for erection of factory at Burdon Main Road, for S. Robson, Longston Avenue, Cullercoats.

E.C. to proceed with a £30,000 scheme for improvements to toilets at the Western Junior Mixed and Infants' School. M.E. is being asked to approve the construction of an additional laboratory at Tynemouth High School.

**West Hartlepool, Dur.**—Scottish Brewers, Ltd., Abbey Brewery, Holyrood Road, Edinburgh, 8, are planning the erection of a public house at Kingsley Avenue. The firm have their own architect.

**West Riding.**—C.C. propose new aged persons' homes at High Green and Mill Hill, Pontefract (each costing £48,400) and at Gargrave (£42,100); new occupation centres at Horsforth and Holmfirth (each £34,700); Harrogate (£33,920), and Rawcliffe (£31,600); and a child welfare clinic at Selby Costing £16,150.

**Whitby, Yorks.**—Halls (Contractors), Ltd., Baxtergate, are to erect a wrought-iron factory and joiners' workshop at Ruswarp, and plans have been approved.

**Whitley Bay, Northumb.**—Walter Glynn, 2 Rossway, Monkseaton, is seeking planning permission to carry out a £500,000 development scheme on a site at The Links, providing for a 10-storey building, comprising bus station, conference hall, restaurant and flats, with parking facilities. Wood and Pigg, architects, 17a Northumberland Square, North Shields.

**Willesden, Middx.**—C.C. recommended to authorise the extension of the library at Kilburn Polytechnic. Estimated cost £1,350.

**Wisbech, I. of E.**—B.C. have approved first stage of scheme for the adaptation of the Old Vicarage. Estimated cost £10,000 to £12,000.

**Wolverhampton, Staffs.**—W. Butler and Co., Ltd., Springfield Brewery, to appoint H. Vale and Sons, quantity surveyors, Waterloo Road, to prepare bills of quantities for rebuilding the Lord Raglan at Great Bricklin Street. Plans by staff architects' department.

**York.**—George G. Pace, 18 Clifton Green, York, are the architects and Thompson and Alexander, 6 Cromwell Place, London, S.W.1, the quantity surveyors, for rebuilding of the church of St. Martin-le-Grand, in Coney Street.

#### ELECTRICAL

**Kingston-upon-Thames, Surrey.**—South-West Metropolitan Regional Hospital Board recommended to approve the appointment of Barlow, Leslie and Coombes, 5 Catherine Place, London, S.W.1, as consulting engineers for the replacement of three lifts at Kingston Hospital.

#### FENCING

**Barrow-in-Furness, Lancs.**—B.C. recommended to approve the fencing of the former Bridgegate refuse tip. Estimated cost £600.

#### GAS AND WATER SUPPLY

**Cemaes, Pembs.**—R.D.C. to proceed with the Tegyryn water supply improvement scheme.

**Chippenhams, Wilts.**—B.C. recommended to apply for sanction to borrow £1,000 for laying water mains at Cedar Grove.

**Huntingdon.**—B.C. recommended to approve, in principle, scheme for the construction of a 250,000-gallon capacity water tower at Sapley.

**Leamington Spa, War.**—B.C. recommended to apply for sanction to borrow £5,000 for the provision of new water mains.

**Limerick, Eire.**—City Council recommended to approve a water supply scheme. Estimated cost £26,000.

**Morley, Yorks.**—B.C. recommended to apply for sanction to borrow £2,260 for laying of water main on Moorhead estate, part two, and £510 for extension of water main on land off School Street, Churwell.

**Oxford.**—City Council recommended to apply for sanction to borrow £3,301,500 for the construction in two stages, of the proposed impounding reservoir and source works, including new treatment and pumping works in the Eynsham area. Plans prepared by Binnie Deacon and Gourley, consulting engineers, Artillery House, Artillery Row, London, S.W.1.

City Council recommended to proceed with scheme for the provision of a water supply to the Noke/Charlton-on-Otmoor area. Estimated cost £8,300.

**Peterborough.**—City Council recommended to approve, in principle, scheme for the provision of two replacement boreholes each at Wiltshorpe and Etton. Estimated cost £55,000.

**Worcester.**—City Council recommended to approve scheme for reconditioning the rotary band screens at the waterworks. Estimated cost £2,020.

#### HOUSING SCHEMES

**Becles, Suffolk.**—B.C. recommended, subject to Ministry approval, to invite tenders for the erection of houses and garages at Queen Elizabeth Drive.

**Bexhill, Sussex.**—B.C. recommended to submit to Ministry and Local Planning Authority, for approval, scheme for the erection of one block of eight and one block of four aged persons' flats at the Suffolk Road site.

B.C. recommended to approve outline application for a block of 36 flats and 20 garages, adjacent to The Bex, De La Warr Parade, for Marsden (Kent), Ltd., 1a Sanderstead Road, Orpington, Kent.

**Blandford, Dorset.**—B.C. recommended to prepare plans for the erection of two blocks of three-storey flats at Eagle House site.

**Cheltenham, Glos.**—B.C. recommended to prepare detailed plans and negotiate a tender with Waters, Ltd., 1258 London Road, London, S.W.16, for the erection of an eight-storey block of 38 flats, to be known as Charlotte House.

**Croydon, Surrey.**—B.C. have approved the following planning applications: Sixteen flats and eight garages at 13 Beulah Hill, Upper Norwood, for Tamworth Park Construction Co., Ltd., 2 Thrale Road, Streatham, London, S.W.16; 50 flats or maisonnettes adjoining Queens Hotel, Church Road, Upper Norwood, for Premium Securities, Ltd., 1 Cumberland House, Kensington Court, London, W.8; 17 flats and 15 garages at 230-232 South Norwood Hill, for Acrobin, Ltd., 7 Alderbrook Road, London, S.W.12.

**Grantham, Lincs.**—B.C. recommended to submit to Ministry, for approval, scheme for the erection of 291 houses at Earlesfield estate, during the year.

**Great Yarmouth, Norfolk.**—B.C. recommended to approve the provision of a house for the parks superintendent at Gorleston. Estimated cost £2,500.

**Henley, Oxon.**—R.D.C. have approved plans for the erection of 25 Unity-type bungalows at various sites during this year.

**Ilkeston, Derbys.**—B.C. recommended to approve plans and invite tenders in due course for the erection of 47 dwellings at Kirk Hallam No. 2 (north) site.

**Luton, Beds.**—Borough Architect to prepare plans and bills of quantities and invite tenders in due course for the erection of four houses at Eaton Green Road.

**Maidstone, Kent.**—B.C. to submit to C.C. for approval, outline application for the conversion of 43 Kingsley Road, into three flats.

B.C. recommended to approve outline application for the erection of a block of 15 flats on land on east side of Foley House, Sittingbourne Road, for New Thornhill Estates, Ltd.

**Newark, Notts.**—Ministry have approved R.D.C.'s plans for the erection of 100 houses during this year.

**Norwich.**—City Council recommended to approve the erection of 200 dwellings during 1960-61.



**Pontypool, Mon.**—U.D.C. have approved scheme for the erection of 300 houses at Trevethin during this year.

**Portland, Dorset.**—U.D.C. recommended to approve the erection of approximately 50 houses for stage four of the Verne Common development scheme.

**Romford, Essex.**—B.C. recommended to approve scheme for a block of 12 flatlets for aged persons at Waterloo Road.

**Rowley, Regis, Staffs.**—B.C. recommended to negotiate with Selleck Nicholls and Co., Ltd., St. Austell, Cornwall, for the erection of flats on various sites.

**Smethwick, Staffs.**—B.C. recommended to approve layout and invite tenders in due course for the construction of 105 dwellings, 60 garages and 100 stores at the redevelopment site No. 3, the first phase (Poplar Street section), comprising one 12-storey and three five-storey blocks.

**Staines, Middx.**—L.C.C. approved proposals for the erection of 115 houses and flats, 67 garages, a workshop and a shop at Hengrove Farm. Estimated cost £232,652.

**Stockport, Ches.**—B.C. recommended to negotiate tenders with G. Wimpey and Co., Ltd., and Unity Housing, Ltd., for the erection of 63 and 54 dwellings respectively at Canal Bridge Farm estate, stage II, contracts 7 and 8.

**Sutton and Cheam, Surrey.**—B.C. propose eight flats in a two-storey block and eight bungalows at the rear of The Rectory, Malden Road, Cheam.

B.C. have approved the following outline plans: Demolition of three houses and the erection of 12 three-room flats and 13 garages, Philip's Avenue, Worcester Park, for Sagos Builders, Ltd., 137 Haling Park Road, Croydon; demolition of two houses at 7 and 9 Robin Hood Lane, and the erection of 45 flats in four three-storey blocks and 45 garages, for Wellwood Estates, Ltd., 2 Sloane Gardens, London, S.W.1; demolition of house at 31 Christchurch Park, Sutton, and the erection of six flats and six garages, for M. J. Gleeson (Contractors), Ltd., London Road, Cheam; demolition at 88 Worcester Road and erection of 24 flats and 22 garages, for New Ideal Homesteads, Ltd., Mead House, South Street, Epsom.

**Swansea.**—B.C. have approved plans for the erection of old people's bungalows at West Cross.

**Williton, Som.**—R.D.C. propose the erection of 95 houses during this year, 57 of them at Stogursey for workers at the nuclear power station.

**Worcester.**—City Council recommended to approve the erection of 279 dwellings at Warndon estate, 18 at St. Catherine's Vale, 14 at Tollodine estate, 10 at Powell's Row, eight at Dines Green estate and three at Little Park Street, during the year; provision of caretaker's house at Gorse Hill School. Estimated cost £2,250.

#### PLAYING FIELDS, PARKS, ETC.

**Bermondsey.**—L.C.C. approved the laying out of the first part of the Bermondsey riverside open space. Estimated cost £4,475.

**Hereford.**—City Council recommended to approve draft layout plan for a cinder track, dressing room accommodation, four football pitches and two cricket squares at the Racecourse.

**Huntingdon.**—B.C. recommended to approve, in principle, and submit to County Planning Officer for approval, scheme for the layout of Hartford Road Fields.

**Leamington Spa, War.**—B.C. recommended to approve, in principle, scheme for landscaping the area surrounding the multi-storey flats at Masons Avenue. Estimated cost £1,200.

**Luton, Beds.**—B.C. to apply for sanction to borrow £4,750 for the development of permanent allotment sites at Stockingstone Road and Winsdon Hills.

**Salford, Lancs.**—City Council recommended to apply for sanction to borrow £3,500 for development of land in Church Road and Duke Street as a playground extension to the Ascension C.E. School, and £7,372 for improvement of Littleton Road allotments site.

**Swindon, Wilts.**—B.C. recommended to approve scheme for the completion of the layout of Queen's Park. Estimated cost £26,600.

#### ROADS, BRIDGES AND SITE WORKS

**Barnes, Surrey.**—B.C. have approved, in principle, the widening of Upper Richmond Road West, between Portman Avenue and Priests Bridge.

**Barrow-in-Furness, Lancs.**—B.C. recommended, subject to M.T. approval, to invite tenders from selected contractors, for construction of the Michaelson Road high level bridge, Mott, Hay and Anderson, 9 Idlesleigh House, Caxton Street, Westminster, S.W.1, are the consulting engineers.

**Blandford, Dorset.**—B.C. recommended to approve sketch plans for the construction of a car park adjacent to Church Lane.

**Clackmannanshire.**—C.C. have appointed Blyth and Blyth, 135 George Street, Edinburgh, 2, consulting engineers for the construction of Devonside Bridge, Tillicoultry.

**Colne, Lancs.**—Borough Engineer to prepare plans, etc., for making-up Sefton Street and Ellesmere Avenue.

**Lambeth.**—L.C.C. to employ private consultants to prepare schemes and estimates for the erection of three pedestrian bridges in connection with the development of the South Bank area.

**Liverpool.**—City Council recommended to apply for sanction to borrow £1,162 for paving of footways in front of new buildings in Birchfield Street, Langsdale Street, Great Homer Street, Nursery Street, Bolton Street, Hilbre Street and Skelthorne Street.

**Luton, Beds.**—B.C. to invite tenders for resurfacing with tarmacadam the forecourts of garage sites at various housing estates.

**Maidstone, Kent.**—B.C. recommended to submit to Ministry, for approval, scheme for the improvement of the junction at Poplar Grove, London Road and Grace Avenue; making-up and laying out as a permanent car park the temporary car park at Upper Stone Street; invite tenders for the construction of the Riverside Walk.

**Peterborough.**—City Council recommended to approve, in principle, scheme for the extension of Eastfield Cemetery. Estimated cost £2,300.

**Plymouth.**—City Council recommended to submit to M.T. for approval and grant aid schemes for the construction of the Western Approach Road from (a) Frankfort Gate to Harwell Street Ope and (b) Harwell Street Ope to Cambridge Street, and for the extension of Nottle Street from Princess Square to Athenaeum Street, estimated cost £10,355, £34,412 and £23,300, respectively; approve in principle scheme for the provision of a bus bay at Mutley Plain/Alexandra Road junction, £2,300; invite tenders for the making-up of Glenholt Road and Holtwood Road, £27,748.

**Pontypool, Mon.**—U.D.C. have approved scheme for the construction of roads and sewers to serve 300 houses at Trevethin.

**St. Albans, Herts.**—City Council recommended to apply for sanction to borrow £19,755 for the making-up of Mount Drive and The Rise; invite tenders for the construction of two car parks, one at the rear of The Grange and one at Wellington Court. Estimated cost £4,100 and £2,200, respectively.

**Sheffield.**—City Engineer to be authorised to carry out provision of bus terminus in Morton Lane and construction of a footpath in Morton Lane, between Chesterfield Road South and Dyche Lane, estimated cost £2,800, and to resurface and improve Abbey Lane, £29,740.

**Stockport, Ches.**—Ministry have approved plans for the completion of footpaths, verges and final surfacing of carriageways at Hillcrest Road estate, for B.C. Estimated cost £4,881.

B.C. recommended to approve plans for the making-up of the St. James Road group. Estimated cost £12,980.

**Stoke-on-Trent, Staffs.**—City Council recommended to prepare scheme for the reconstruction of the bridge carrying Millrise Road, Milton, over the River Trent; approve plans for making-up Palmers Green (part) and Upper Hollings Street (part) and Carling Grove, Fenton, and Stross Avenue, Chell.

**Sunbury-on-Thames, Middx.**—C.C. recommended to approve the construction of a roundabout at the junction of Walton Bridge, Russell and Fordbridge Roads. Estimated cost £24,060.

**Swindon, Wilts.**—B.C. recommended to apply for sanction to borrow £16,400 for the provision of access road, sewers and ancillary works at Parsonage Farm.

**Weymouth, Dorset.**—B.C. recommended to approve plans for the making-up of Grafton Avenue and Bryants Lane.

**Worcester.**—City Council recommended to approve plan for the future widening of part of London Road and Whittington Road.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Accrington, Lancs.**—Borough Engineer to be instructed to prepare a revised scheme for remaining part of extensions at the Huncoat sewage disposal works.

**Bideford, Devon.**—B.C. recommended to prepare scheme for dealing with storm water in the Furzebeam Terrace area.

**Bodmin, Corn.**—Ministry have approved B.C.'s sewerage and sewage disposal scheme for Westheath. Detailed drawings are to be prepared.

**Ilkeston, Derbys.**—B.C. recommended to approve in principle, submission to Ministry for approval, scheme for the reconstruction of the Eastern Outfall Sewer. Estimated cost £110,000.

**Leeds.**—City Council recommended to apply for sanction to borrow £6,500 for con-

struction of a 12in. sewer for combined drainage and service road in the Shannon Street light industrial area; to approve construction of a 15in. sewer from Mavis Avenue to a point on the east side of Otley Old Road, estimated cost £8,600, construction of a short length of sewer with storm water overflow in Adel Valley at Adel Bridge, £5,000.

**Liverpool.**—City Council recommended to apply for sanction to borrow £1,502 for sewer reconstruction works in Cuckoo Lane.

**Maidstone, Kent.**—B.C. recommended to proceed with construction of a sewer at 24-3: Mill Street. Estimated cost £1,100.

**Peterborough.**—City Council recommended to approve in principle and submit to Ministry for approval, schemes for construction of foul water drainage for main area of Westwood and provision of surface water drainage for area between Thorpe Road and River Nene. Estimated cost £183,500 and £32,000 respectively.

**Stoke-on-Trent, Staffs.**—City Council recommended to prepare scheme for the extension of the Bucknall to Adderley Green sewer.

#### STREET LIGHTING

**Bideford, Devon.**—B.C. recommended to prepare scheme for general improvements to street lighting in the borough.

**Bristol.**—City Council recommended to approve scheme for supplementary illumination of pedestrian crossings. Estimated cost £1,800.

**Croydon, Surrey.**—B.C. recommended to approve programme of street lighting improvements, stage five. Estimated cost £92,000.

**Leatherhead, Surrey.**—U.D.C. propose the installation of sodium lighting from the Epsom boundary to The Street. Estimated cost £4,100.

**Oxford.**—City Council recommended to apply for sanction to borrow £11,295 for the provision of improved lighting in various streets during this year.

**Stoke-on-Trent, Staffs.**—City Council recommended to approve scheme for the conversion of street lighting on the Winchester-Preston trunk road between Ash Green and Hanford.

**West Hartlepool, Dur.**—B.C. have approved the spending of £9,265 during the coming financial year, on street lighting improvements.

## CONTRACTS

Full details of the Contracts marked \* will be found in our Advertisement Columns.

#### BUILDING AND DECORATING

(See also Housing Schemes)

\***Aberdare, Glam.**—Repairs to fire places and stacks, for U.D.C. Deposit £1. Tenders by Feb. 26.

**Aberdeen.**—Conversion into flatted dwellings of existing property at the following, for City Council: (1) 10 Grampian Road, Torry—six dwellings; (2) 54 Walker Road, Torry—five dwellings; (3) 6 Wallfield Place—four dwellings, comprising the following works: (a) mason, drainage and slater, etc.; (b) carpenter, joiner and ironmonger; (c) plumber; (d) lath and plaster; (e) electrical; (f) painter and glazier. Applications, in writing, to the City Architect, 11 Broad Street, Aberdeen. Plans also seen at the offices of Leo Durnin, 252 Union Street, Aberdeen. Tenders by (1) Feb. 12 and (2) and (3) Feb. 19.

**Aireborough, Yorks.**—External painting of Micklefield House and Nunroyd House, for U.D.C. Applications to the Surveyor, Micklefield House, Rawdon, Leeds. Deposit £1 1s. Tenders by March 7.

\***Amersham, Bucks.**—External redecoration of houses, for R.D.C. Apply by Feb. 29.

**Ashford, Kent.**—Following, for U.D.C.: (a) Reroofing of Council houses; (b) external painting of Council houses; (c) electrical re-wiring of Council houses; (d) fencing to Council houses. Documents from the Surveyor, 1 Elwick Road, Ashford. Tenders by March 5.

**Aylesbury, Bucks.**—External painting to council houses in the following villages, for R.D.C.: Aston Clinton, Birtton, Brill, Buckland Bishopstone, Chearsley, Chilton, Cuddington, Dinton, Grendon Underwood, Haddenham, Halton, Hardwick, Kingswood, Long Crendon, Quanton, Stoke Mandeville, Weedon, Wendover, Weston Turville, and Upper Winchendon. Documents from Raymond C. White, council's architect, 4 Temple Square, Aylesbury. Contractors may tender for the whole or part of the works. Tenders by Feb. 15.

**Ballymoney, Antrim.**—Alterations and additions to the rectory at St. Patrick's Parish Church, for The Select Vestry of St. Patrick's Parish Church. Section 1—building work—including the redevelopment of part of the ground floor to form new kitchens and garages, etc., together with general repairs in accordance with plans and specifications.

Section 2—heating and plumbing—including a complete low pressure hot water heating system and new plumbing works in accordance with plans and specification. Section 3—electrical wiring—including complete re-wiring of existing rectory, involving electric lighting and socket outlets in accordance with plans and specification. Documents from Thomas T. Houston and Co., architects, 26 College Gardens, Belfast, 9. Deposit £3 3s. per section. Tenders by Feb. 17.

**Banbury, Oxon.**—Construction of concrete bases for 27 lock-up garages together with two brick-built stores, screen walls and garden at The Fairway, for B.C. Documents from the Engineer and Surveyor, Municipal Buildings, Marlborough Road, Banbury. Deposit £2 2s. Tenders by March 4.

**Barnet, Herts.**—Installation of concrete footpaths, showers and other works at the Council's Sports Pavilion, Grosvenor Avenue, Barnet, for U.D.C. Documents from Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet. Tenders by Feb. 20.

**Birmingham.**—General repairs to the following properties, for City Council: 164-198 Heath Street and 5, 7, Tudor Street—22 houses; 200-216 Heath Street and rear—17 houses; 234, 236, 248, 272-276 Heath Street and rear—20 houses; 253-267 Heath Street and rear—25 houses; 123-139 Winsor Street and rear—14 houses. Documents from J. P. Macey, housing manager, Bush House, Broad Street, Birmingham, 1. Deposit £2 2s. each contract. Tenders by March 7.

**Bridge-Blean, Kent.**—Following works as separate contracts, for R.D.C.: (1) External painting of 12 Arcon prefabricated bungalows, Woodside Avenue, Chatham; (2) external painting of 87 Council houses as follows (contractors may tender for one or all of groups (a) (b) and (c))—(a) Adisham six, Bridge eight Littlebourne 16, (b) Blean 27, Harbledown (rough common) eight, Petham eight, (c) Lower Hardes 14; (3) external painting of the Council Offices, 41 Old Dover Road, Canterbury; (4) replacement of kitcheners by open fireplaces with back boilers at Council houses as follows—Ross Gardens, Harbledown, six, Chatham post-war estates, 17. Documents from the Engineer and Surveyor, Council Offices, 41 Old Dover Road, Canterbury. Tenders by March 9.

**Bury St. Edmunds, Suffolk.**—External re-painting of 410 dwellings, eight shops and 34 garages, as follows, for B.C.: (Group a) 64 permanent houses and 18 garages in Gloucester Road, Bunbury Road, Acacia Avenue and Lake Avenue; (b) 60 permanent houses and eight shops in Derwent Road, Tennyson Road, Lake Avenue and South Parade; (c) 44 permanent houses in Northumberland Avenue; (d) 66 permanent houses in Waveney Road, Lake Avenue and Severn Road; (e) 48 flats and 16 garages in Lake Avenue and Prince Charles Avenue; (f) 68 permanent houses and flats in Springfield Avenue and Cornfield Road; (g) 60 temporary and permanent houses and flats in York and Queen's Closes, Spring Lane, Springfield Road and Blomfield Street. Documents from the Borough Engineer and Surveyor, Borough Offices, Bury St. Edmunds. Tenders by Feb. 24.

**Cardiff.**—Construction of the proposed grammar school for boys at Fairwater, for City Council. Documents from the Architect, 12 Park Place, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by March 15.

**Cheltenham, Glos.**—Following, for R.D.C.: Provision of water closets, hot water systems, etc., at 1, 2, 4, 5, 7, 8 and 10 Shakespeare Cottages, North Road, The Reddings, Badgeworth, and the connection of the dwellings to the main drainage system. Documents from the Surveyor, 20 Imperial Square, Cheltenham. Tenders by Feb. 19.

**Conway, Caerns.**—Erection of a block of conveniences at the Morfa Camping Ground, for B.C. The building is to be approximately 1,800 sq. ft. in floor area and will incorporate 60 w.c. cubicles, two sets of urinal stalls, 13 lavatory basins and stores. Documents from the Borough Engineer, Bodlande, Conway. Deposit £3 3s. Tenders by Feb. 18.

**Dagenham, Essex.**—Following for B.C.: (1) Metal casement windows; (2) reinforced concrete floors at the Limbourne Avenue estate. Documents from the Borough Surveyor, Civic Centre, Dagenham. Tenders by March 5.

**Devonshire.**—Erection of police station and two houses, for C.C. Applications to the Architect, 97 Heavitree Road, Exeter, by Feb. 20. Deposit £3 3s., payable to C.C.

**Devonshire.**—Erection of branch library at Paignton, for C.C. Documents from County Architect, 97 Heavitree Road, Exeter. Deposit £3 3s., cheques payable to C.C.

**Docking, Norfolk.**—Carrying out sanitary improvements to 10 houses at Mainway, Holme-next-the-Sea, and the construction of a small sewage disposal works, for R.D.C. Documents from G. E. Gibson, housing

officer, Council Offices, Docking, King's Lynn. Deposit £1 1s. Tenders by Feb. 17.

**Edinburgh.**—Following maintenance works at Gogarburn Mental Deficiency Institution, for Board of Management: Blacksmith, boiler scaling, carpenter and joiner, chimney sweeping, electrical services, general engineering, glazing, steam heating and hot water supply services, mason and brickwork, plaster and cement work, plumber and slater work. Documents from the Secretary and Treasurer, Gogarburn Institution, Corstorphine, Edinburgh, 12. Tenders by Feb. 23.

**Esher, Surrey.**—External repainting of 20 houses, six bungalows and 12 flats at Grange Road and Brende Gardens, West Molesey, contract 297, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Esher. Deposit £1 1s. Tenders by March 15.

**Essex.**—Erection of first stage of Stifford Clays William Edwards Boys' Secondary School, for C.C. The building will be part two-storey and part single-storey in brick and steel-framed construction. Estimated cost £106,000. Applications to H. Conolly, architect, County Hall, Chelmsford, by Feb. 13.

**Flintshire.**—External painting of following, for C.C.: (a) Old Hall scheme, Hanmer (11 holdings); (b) Mulsford scheme, Bangor-on-Dee (five holdings). Documents from Mavsmor W. Jones, county land agent, 16 Wrexham Street, Mold. Tenders by March 7.

**Hammersmith.**—Following works for B.C.: Repair, decoration and improvement in private houses, both occupied and empty, the cost of such works varying between £500 and £3,000. Applications to Engineer and Surveyor, Town Hall, Hammersmith, London, W.6.

**Hastings, Sussex.**—Erection of first instalment at college of further education, for B.C. Deposit £5 5s. Tenders by March 28.

**Havant and Waterlool, Hants.**—Supply and erection at the town hall, Havant, of approximately 6,000 sq. ft. of prefabricated single-storey office accommodation with ancillary works thereto, for U.D.C. Applications to Engineer and Surveyor, 1 Park Road North, Havant, by Feb. 18.

**Haves and Harlington, Middx.**—Following external redecoration of dwellings and shops for U.D.C.: Bourne Farm estate—84 flats (three storey) and four shops with four maisonnettes over, 22 garages; Barnhill estate—60 flats (three storey), 94 houses and four bungalows, 20 garages. Documents from Estates Manager, Estate Office, Townfield Road, Haves, Tenders by March 1.

**Ilford, Essex.**—Construction of a refreshment pavilion in Valentines Park, Cranbrook Road, for B.C. Applications in writing to the Borough Engineer, Town Hall, Ilford. Deposit £2 2s. Tenders by Feb. 23.

**Leatherhead, Surrey.**—Erection of public conveniences and bus shelter at Great Bookham, for U.D.C. Documents from Engineer and Surveyor, Red House, Leatherhead. Tenders by Feb. 25.

**Leighton Buzzard, Beds.**—Improvement works to 169 pre-1939 houses, for U.D.C. The work consists primarily for the provision of Sadia hot water systems, wash bowls, various electrical heating points and the provision, complete, of four bathrooms, together with appurtenant works. Documents from the Engineer and Surveyor, Council Offices, Leighton Buzzard. Deposit £2 2s. Tenders by Feb. 24.

**Lincoln.**—Erection of a three class instalment, at Ruskington New Mixed County Primary School, for C.C. Applications to the County Architect, County Offices, Sleaford, by Feb. 25. Tenders by March 15.

**Manchester.**—Erection of a Technical High School for Girls at Harpurhey, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Feb. 23.

**Manchester.**—Erection of five shops and maisonnettes, for City Council. Tenders by Feb. 29.

**Montgomeryshire.**—Erection of a new grammar school adjacent to the existing modern secondary school at Welshpool, for Education Authority. Documents from J. A. Davies, director of education, County Offices, Newtown. Tenders by Feb. 29.

**Newark-on-Trent, Notts.**—Extension of attested cattle market, for B.C. Deposit £2 2s. Tenders by March 4.

**Northfleet, Kent.**—Exterior painting of 250 houses and bungalows on the Womwell Park estate, for U.D.C.: Contract 1—132 houses, 12 bungalows; contract 2—100 houses, six bungalows. Documents from the Housing Manager, Housing Department, Town Hall, Northfleet. Tenders by Feb. 23.

**North Riding.**—Erection of Marske County Junior School near Redcar, for E.C. Documents from J. H. Napper and Partners, architects, 133 Osborne Road, Newcastle upon Tyne, 2. Plans also seen at the County Hall, Northallerton. Tenders by March 4.

**Northwich, Ches.**—Supply and erection of 48 precast concrete bus shelters of the enclosed and cantilever type in various parishes, for R.D.C. Documents from the Engineer and Surveyor, Whitehall, Hartford, Northwich. Deposit £2 2s. Tenders by March 3.

**Nottingham.**—Following cleaning and painting works, for E.C.: Internal and external—Peverill School, Robins Wood Road, Aspley; Raleigh School, Raleigh Street; Secondary School for Art, 9-11 Waverley Street; The High Pavement School, Gainsford Crescent, Bestwood estate; Whitegate Junior and Infant Schools, Middlefell Way, Clifton estate. Internal—Claremont School Annex, Perry Road, Sherwood; Player Junior Boys' and Girls' Schools, Highwood Avenue, Bilborough; Charnwood School kitchen, Farnborough Road, Clifton estate; Glapton School kitchen, Glapton Lane, Clifton estate; Walter Halls School kitchen, Querneby Road, Mapperley; Westbury School kitchen, Lorias Road, New Basford; Padstow School kitchen, Padstow Road, Bestwood. Documents from Education Office (Sites and Buildings Department), Exchange Buildings, Smithy Row, Nottingham. Deposit £1 each contract. Tenders by March 7.

**Pembrokeshire.**—Erection of a new three-bay fire station with ancillary buildings and one fireman's house in High Street, Pembroke Dock, for C.C. The building will be mainly of two storeys with a single-storey appliance room, drill and hose drying tower and certain workshops. The general construction will be traditional with load bearing walls, concrete roofs, etc. Applications to Lt-Col. Walter Barrett, architect, County Offices, Haverfordwest, by Feb. 20. Deposit £2 2s.

**Pontypool, Mon.**—Erection of a shelter, conveniences, etc., Croesyceiliog playing field, for R.D.C. Documents from Thomas and Morgan and Partners, 23 Gelliwasad Road, Pontypridd. Deposit £2 2s. Tenders by Feb. 29.

**Port Talbot, Glam.**—Erection of a branch library at Morrison Road, Sandfields, Aberavon, for B.C. Documents from G. V. Griffiths, borough engineer, Municipal Buildings, Port Talbot. Deposit £2 2s. Tenders by Feb. 22.

**Rutland.**—Alterations and additions to provide improved sanitary and cloakroom accommodation at Barrowden and Wing Primary Schools, for C.C. Documents from the Architect and Planning Officer, Catmose, Oakham, Rutland. Tenders by Feb. 29.

**Southampton.**—Erection of annexe, Weston Park School, for B.C. Apply in writing by Feb. 20. Tenders by March 21.

**Stourbridge, Worcs.**—Erection of a brick-built pavilion and public conveniences at South Road playing fields, for B.C. Documents from H. W. Morris, engineer and surveyor, Council House, Stourbridge. Deposit £2 2s. Tenders by March 4.

**Surbiton, Surrey.**—Erection of branch library and community centre, Hook, for B.C. The contract comprises the construction of a light steel-framed library and assembly hall and various ancillary rooms of load bearing construction. Applications, giving details of recent similar work executed, to John H. A. Crundell, town clerk, Council Offices, Surbiton, by Feb. 16. Tenders by March 25.

**Surbiton, Surrey.**—Construction of a light steel-frame library and assembly hall and various ancillary rooms of load-bearing construction at Hook, for B.C. Documents from John H. A. Crundell, town clerk, Council Offices, Surbiton, by Feb. 16. Tenders by March 25.

**Swansea.**—Erection of block of shops and maisonnettes at Port Tennant Road, for B.C. Applications to the Borough Architect, The Guildhall, Swansea, by Feb. 26. Deposit £2.

**Tyrone.**—Following, for E.C.: (1) Lisnaveary P.S. (near Augher)—erection of extensions; (2) Dyan P.S. (near Caledon)—erection of fencing. Applications to the Chief Education Officer, Education Offices, Omagh. Tenders by Feb. 16.

**Ulverston, Lancs.**—Provision of new Council offices, for R.D.C. Tenders by Feb. 18.

**Ventnor, I. of W.**—Painting of part of the sub-structure of the Royal Victoria Pier, for U.D.C. Documents from Basil L. Photos, chartered surveyor and architect, 85 High Street, Shanklin, I. of W.

**Wandsworth.**—Rebuilding the church of England chapel at Putney Vale Cemetery, for B.C. Applications to J. Noel Martin, town clerk, Municipal Buildings, Wandsworth, London, S.W.18, by March 9.

**Wellington, Salom.**—External painting of following, for R.D.C.: Schedule (6) 52 houses at Hadley; (7) 44 houses at Hadley; (22) 160 houses at Donnington; (23) 64 houses at Donnington; (35) 36 houses at Donnington; (42) 107 houses at Ketley. Applications to the Housing Manager, Estate Offices, Donnington, Wellington. Tenders by Feb. 22.



**West Fife.**—Following for the year commencing April 1, 1960, for Hospitals Board of Management: (1) Building trades—(a) mason and brickwork; (b) carpenter and joiner; (c) slater and tiler; (d) plaster and cement; (e) plumber and gasfitter; (f) window cleaning; (g) chimney sweeping; (2) engineering services—(a) electrical work; (b) steam, condense, heating and gas; (c) domestic hot water. Documents from W. M. Muir, secretary and treasurer, 16 Comely Park, Dunfermline. Tenders by Feb. 22.

**West Riding.**—Alterations to provide dental and minor ailments clinic, at the former divisional education office, Richardshaw Lane, Pudsey, for C.C. Documents from the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate. Tenders by Feb. 22.

**West Riding.**—Internal and external painting of schools in Colne Valley, Denby Dale, Holmfirth, Meltham, Kirkburton areas during 1960, for C.C. Applications to A. Beardsell, divisional education officer, 35 Kirkgate, Huddersfield. Tenders by Feb. 20.

**West Riding.**—Internal painting at Barnsley Divisional Police Headquarters, for C.C. Applications to the Divisional Architect, Bishopcarrth, Westfield Road, Wakefield, by Feb. 19. Tenders by March 4.

**Withernsea, Yorks.**—Covering in of sun lounge, as follows, for U.D.C.: (1) (a) Steelwork and erection, (b) asbestos roof and roof lights; (2) brickwork; (3) joinery, including windows, lining and sheeting rails; (4) plumbing, glazing; (5) electric lighting; (6) painting. Documents from the Clerk of the Council, Municipal Buildings, 243 Queen Street, Withernsea. Tenders by Feb. 19.

**Witney, Oxon.**—Following, for R.D.C.: Erection of garages and all ancillary works in the following parishes: (1) Aston (six); (2) Bampton (six); (3) Brize Norton (four); (4) Langford (six); (5) South Leigh (six). Documents from the Engineer and Surveyor's Department, 36 Market Square, Witney. Tenders by Feb. 23.

**Worcester.**—Reconstruction and re-equipping of the main kitchen block at Hillborough, Tallow Hill, Worcester, for City Council. Documents from City Engineer and Surveyor, 22 Bridge Street, Worcester. Deposit £2 2s. Tenders by March 7.

**Workson, Notts.**—Demolition of seven cottages and the erection of six traditional type old people's bungalows at High Street, Blyth, for R.D.C. Documents from B. D. Thompson, F.R.I.B.A., 102 Bridge Street, Workson. Deposit £3 3s., by cheque payable to Council. Tenders by Feb. 24.

#### CLOTHING AND TEXTILES

**Birkenhead.**—Supply of uniform clothing, caps, mackintoshes and dust coats, for B.C. Documents from the Water Engineer, 601 Borough Road, Birkenhead. Tenders by March 7.

**Lincoln.**—Supply of following, for City Council: (a) Uniform clothing for members of the city police force and the fire brigade; (b) uniform clothing for the transport and other departments of the Corporation. Documents from J. Harper Smith, town clerk, Town Clerk's Office, Lincoln. Tenders by Feb. 26.

**Renfrew and Bute.**—Supply of uniform clothing for the police force of the Renfrew and Bute Constabulary, for Joint Police Committee, i.e., waterproof coats, garbierine coats, jackets and trousers; shirts and collars; ties; leather gloves; caps; warm linings; police-women's uniform and police cadets'. Documents from Robert Urauhart, clerk County Buildings, Paisley. Tenders by Feb. 19.

**Sheffield.**—Supply of articles of police clothing for the city of Sheffield police. Documents from The Chief Constable, P.O. Box 14, Castle Green, Sheffield, 3. Tenders by Feb. 26.

#### DEMOLITION

**Kerrier, Corn.**—Demolition to slab level of 22 hutments comprising 34 units of accommodation at Trelanvean, for R.D.C. Documents from W. J. Thomas, clerk of the Council, Council Offices, The Willows, Helston. Deposit £1 1s. Tenders by March 5.

**Luton, Beds.**—Demolition of a small sewage works at Hyde Road, Caddington, for R.D.C. Documents from the Engineer and Surveyor, 48 Bute Street, Luton. Tenders by March 19.

**Newport, I. of W.**—Demolition of 69-75 Hunnyhill, for B.C. Documents from the office of the Borough Engineer, 39 Quay Street, Newport. Tenders by Feb. 22.

**Northallerton, Yorks.**—Pulling down and clearing of site in connection with 36 houses and other buildings forming part of East Road clearance area, for U.D.C. Documents from P. Hartley, clerk of the Council, 72 High Street, Northallerton. Tenders by Feb. 20.

**Sunderland.**—Demolition of 99 Low Street, for B.C. Documents from Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s.,

cheques payable to Corporation. Tenders by Feb. 16.

**Tottenham, Middx.**—Period contract for all redevelopment demolition works in the borough, for B.C. Documents from the Borough Engineer, Town Hall, Tottenham, N.15. Deposit £2. Tenders by Feb. 24.

#### ELECTRICAL

**Bishop's Stortford, Herts.**—Electrical wiring work in 28 flats and a communal block shortly to be erected, for U.D.C. Documents from the Surveyor, Council House, Causeway, Bishop's Stortford. Tenders by March 7.

**West Lothian.**—Repair and maintenance of electrical installations and equipment (including minor extensions) at the hospitals in the group all situated in West Lothian, for the year commencing April 1, 1960, for Board of Management. Documents from the Group Secretary and Treasurer, Board of Management, Bangour General Hospital, Broxburn. Tenders by Feb. 27.

**West Riding.**—Installation of a fire alarm system at the hostel for the aged, Hillworth Lodge, Keighley, for C.C. Documents from the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate. Tenders by Feb. 29.

#### FENCING

**Birmingham.**—Supply, delivery and complete erection of a fence at the refuse disposal and salvage works, Brookvale Road, Witton, for City Council. Documents from the General Manager, Salvage Department, Civic Centre, Broad Street, Birmingham, 1. Tenders by Feb. 26.

**Bristol.**—Supply and erection of 175 lin. yd. of heavy mild steel fencing, 8ft. high, at Henleaze Lake, for City Council. Documents from City Engineer and Planning Officer, Cabot House, Deanery Road, Bristol, 1. Tenders by Feb. 19.

**Buckinghamshire.**—Fencing works, for B.C. Apply by Feb. 20.

**Liverpool.**—Supply and fixing of approximately 370 lin. yd. of 5ft. bitumenised chain link fencing, including five gates, on concrete posts at Long Lane-Higher Lane, for City Council. Documents from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Liverpool, 2. Tenders by Feb. 17.

**Manchester.**—Supply of pedestrian guard rails, for City Council. Tenders by Feb. 29.

**Swansea.**—Fencing at Clase and Penlan reservoirs and Pottery Bridge Depot, for B.C. Work provides for the dismantling of existing fencing and the supply and erection of concrete posts clad with chain link. Documents from the Borough Water Engineer and Manager, The Guildhall, Swansea. Tenders by Feb. 27.

**Woking, Surrey.**—Erection of approximately 1,400yd. chain link fencing at Old Woking and Monument Bridge industrial sites, for U.D.C. Documents from Engineer and Surveyor, Council Offices, Guildford Road, Woking. Deposit £2 2s. Tenders by Feb. 22.

#### GAS AND WATER SUPPLY

**Angus.**—Following, for C.C.: (a) Lintrathen water supply, contract 7, 100,000 gallons reinforced concrete tank; 20 miles 7in., 6in., 4in., 3in., and 2in. asbestos-cement water mains; (b) Lundie/Auchterhouse/Tealing water supply, contract 3, 25 miles 6in., 4in., 3in., and 2in. asbestos-cement water mains. Applications to County Engineer, County Buildings, Forfar, by Feb. 29.

**Ballymoney, Antrim.**—Construction of a filter house, etc., situated in the Townland of Corkey Middle, 12 miles east of Ballymoney, contract 8a, for R.D.C. The works comprise: Two settling tanks of approx. 200,000 gallons capacity; four filters each 20ft. x 10ft. x 11ft. deep; filter house on two floors, ground floor approx. 2,900 super. ft. Documents from Waterhouse and Rounthwaite, consulting engineers, Howard Street, Belfast. Deposit £5 5s. Tenders by March 3.

**Barrow-in-Furness, Lancs.**—Construction and testing of a 30in. diameter borehole at Leith Flat Brow, for B.C. Documents from the Water Engineer, 102a Duke Street, Barrow-in-Furness. Deposit £2 2s. Tenders by Feb. 22.

**Bridlington, Yorks.**—Supply and installation of two sets of duplicate pumping plant of 25,000 and 35,000 g.p.h. electrically operated and automatically controlled, for B.C. Documents from the Water Engineer and Manager, 11 Marton Road, Bridlington. Deposit £2 2s. Tenders by March 10.

**Cardiff.**—Llandsefodd water scheme, section B, for City Council, as follows: Sub-contract B.3 (1) 36in., 30in., and 24in. diameter steel pipes and specials with concrete linings and welded joints; (2) 24in. diameter spun-iron pipes with Tyton joints and cast-iron specials; (3) 60in., 42in., and 30in. diameter prestressed concrete pipes and specials. Documents from the Engineer, Cardiff Corporation Waterworks,

Resident Engineer's Office, Sluvad, Panteg, near Pontypool. Deposit £2 2s. each contract, cheques payable to Corporation. Tenders by Feb. 22.

**\*Cardiff.**—Construction of reservoir at Leckwith, for City Council. Deposit £2 2s., cheques payable to Corporation. Tenders by March 8.

**Chatham, Kent.**—Mainlaying, contract 126, for Medway Water Board. 10in. main, Berengrave Lane to Gore pumping station. Laying at Gillingham, Kent, approx. 3,200yd. of 10in. dia. spun-iron water main, with Tyton flexible joints, together with ancillary work. Documents from the Board's Engineer and Manager, 25 Railway Street, Chatham. Deposit £3. Tenders by March 8.

**Chatham, Kent.**—Mainlaying, contract 134, for Medway Water Board. 21in. main Singlewell to Prince of Orange. Laying at Gravesend, Kent, approx. 2,400yd. of 21in. dia. spun-iron water main, with Tyton flexible joints, together with ancillary work. Documents from the Board's Engineer and Manager, 25 Railway Street, Chatham. Deposit £3. Tenders by March 8.

**Depwade, Norfolk.**—Provision, trenching for, laying and jointing, etc., of about 3 miles of 6in. diameter spun-iron mains in the parishes of Dickleburgh and Redenhall-with-Harleston, for R.D.C. Documents from A. P. I. Cotterell and Son, engineers, 54 Victoria Street, London, S.W.1. Deposit £3 3s. Tenders by Feb. 29.

**\*Dursley, Glos.**—Comprehensive scheme of water supply, contract 4, for R.D.C. Apply by Feb. 17.

**Freebridge Lynn, Norfolk.**—Proposed water scheme, parish of Westacre, for R.D.C., laying of approximately 3,000yd. of 3in. spun-iron mains and ancillaries. Documents from W. R. Watkins, the surveyor, Council Offices, 11 King Street, King's Lynn. Deposit £2. Tenders by March 9.

**Fylde, Lancs.**—Laying of 5.3 miles 30in. diameter prestressed concrete and 0.6 mile 30in. diameter steel main, together with ancillary works, for Water Board. Documents from the Engineer to the Board, Sefton Street, Blackpool. Tenders by April 19.

**Glendale, Northumb.**—Laying and part supplying approx. 80yd. of a 3in. water main at Well Dene, Wooler, for R.D.C. Documents from A. R. Field, surveyor, Council Offices, Wooler. Tenders by Feb. 29.

**Inverness-shire.**—Construction of small stream intake, combined filter and clear water tank, and supply and laying out of about one mile of 2in. dia. a.c. piping, at Ardvassar, Skye, for C.C. Documents from the County Water Engineer, County Buildings, Inverness. A site meeting will be held on Feb. 16, starting from Ardvassar Hotel at 11 a.m. Tenders by March 7.

**Kerrier, Corn.**—Laying of approx. 160yd. of 10in. spun-iron water main through the housing estate at Mabe, for R.D.C. Documents from W. J. Thomas, clerk of the Council, Council Offices, The Willows, Helston. Deposit £1 1s. Tenders by Feb. 27.

**Lanarkshire.**—Laying of steel pipelines with Viking Johnson couplings, for Daer Water Board. The approximate lengths and locations are as follows: Contract 4, Daer treatment works to Elvanfoot, 5½ miles of 54in. diameter pipeline; contract 5, Elvanfoot to Abington, 5½ miles of 54in. diameter pipeline; contract 6, Douglas Moor tank to Brocksbrae, eight miles of 42in. diameter pipeline. Documents from D. W. Buchan, County water engineer, 23 Beckford Street, Hamilton. Deposit £5. Tenders by March 4.

**Launceston, Corn.**—Bathpool water scheme, for R.D.C.: Supplying and laying of approx. 2,600yd. of 2in. dia. asbestos-cement pipes and the construction of a 15,000-gallon service reservoir. Documents from G. L. Davey, clerk of the Council, Council Offices, 20 Western Road, Launceston. Deposit £3 3s. Tenders by Feb. 26.

**\*Liverpool, Lancs.**—Laying steel main, River Dee supply, contract 8, 9 and 10, for City Council. Deposit £5 each. Tenders by April 4.

**Liverpool.**—Laying 60in. diameter steel main and ancillary work, as follows, for City Council: (a) (Contract 8) Huntington to Barrow section, seven miles of main; (b) (9) Barrow to Frodsham section, six miles of main; (c) (10) Frodsham to Norton section, 2½ miles of main with major river and canal crossings. Documents from Water Engineer, 55 Dale Street, Liverpool, 2. Deposit £5 each contract, payable to City Treasurer. Tenders by April 4.

**Newry, Armagh.**—Comprehensive water scheme, for R.D.C. Supply, erection and settings to work of suitable pressure filter units and ancillary equipment suitable for a maximum filtration rate of 2,500 g.p.h., at Drumintee. Documents from Nicholas O'Dwyer and Son, consulting engineer, 6 Trevor Hill, Newry. Deposit £5 5s. Tenders by March 9.



**Northamptonshire.**—Laying following, for Mid-Northamptonshire Water Board, contract 441: 2,200 lin. yd. of 3in. diameter spun-iron pipe at Pipewell, near Kettering; 610 lin. yd. of 4in. and 55yd. of 3in. diameter spun-iron pipe at Thorpe Malsor, near Kettering; 1,120 lin. yd. of 3in. diameter spun-iron pipe at Thorpe Underwood, near Rothwell; 2,120 lin. yd. of 3in. diameter spun-iron pipe at Canons Ashby, near Daventry. Documents from Engineer and Manager, Cliftonville, Northampton. Deposit £2 2s. Tenders by Feb. 19.

**Stafford, Yorks.**—Providing and laying approximately 2,000 lin. yd. of 3in. diameter asbestos-cement pressure pipes, constructing a 5,000-gallon reservoir, building of spring chambers, etc., at Hunderthwaite, near Barnard Castle, for R.D.C. Documents from Fairbank and Son, consulting engineers, The Gables, 62a Bootham, York. Deposit £3 3s., cheques payable to R.D.C. Tenders by Feb. 24.

**Williton, Som.**—Stogursey water supply main replacement, for R.D.C. Deposit £2 2s., cheque. Tenders by Feb. 29.

#### HEATING AND VENTILATING

**Birkenhead, Ches.**—New boiler and alterations to heating installation, Grange Secondary School, for B.C. Documents from the Borough Architect, 3 Conway Street, Birkenhead. Deposit £1 1s. Tenders by Feb. 24.

**Harrogate, Yorks.**—Reorganisation of the central heating installation at No. 3 District Police Training Centre, Pannal Ash, for Local Authority Committee. Applications to the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate, by Feb. 26. Tenders by March 18.

**Hull.**—Central heating installation at Wheeler Street School, for City Council. Documents from Andrew Rankine, city architect, Guildhall. Deposit £2, payable to City Treasurer. Tenders by Feb. 17.

**Leeds.**—Installation of boiler to Many Gates Hospital, for Regional Hospital Board. Apply by Feb. 17. Deposit £2 2s., cheques payable to the Board. Tenders by March 16.

**Leeds.**—Completion of steam ring main and heating to Clayton Hospital, for Regional Hospital Board. Apply by Feb. 17. Deposit £2 2s., cheques payable to the Board. Tenders by March 16.

**Manchester.**—Supply and erection of heating, hot water supply and gas installations at Nicholls Secondary School, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by March 2.

**Omagh.**—Low pressure hot water heating, hot and cold water, mains water, and gas installations in new office building, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 25.

#### HOUSING SCHEMES

**Barnes, Surrey.**—Westfields housing scheme—part II, 114 flats, for B.C. Tenders by March 16.

**Barnsley, Yorks.**—Contract S.H.4. 100 dwellings, comprising 33 pairs of three-bedroom houses, 10 pairs of two-bedroom houses, and seven pairs of one-bedroom bungalows, at St. Helens estate, for B.C. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by Feb. 17.

**Barrowford, Lancs.**—Following works, for U.D.C.: (a) Approx. 750 lin. ft. pitched and macadam carriageways, together with kerbs, footpaths, foul and surface water sewers; (b) the erection of 24 two-storey flats in four blocks, together with paving and other site works. Documents from the Engineer and Surveyor, Council Offices, Halstead Lane, Barrowford. Deposit £2 2s. each. Tenders by March 4.

**Bowland, Yorks.**—Erection of Homeville Units, consisting of seven one- and three two-bedroom flats at Waddington, and four one-bedroom flats at Grindleton, for R.D.C. Documents from L. D. Telford, clerk of the Council, Council Offices, 32 Pimlico Road, Clitheroe. Deposit £2 2s., cheques payable to R.D.C. Tenders by Feb. 20.

**Bridge-Blean, Kent.**—Erection of two pairs of three-bedroom houses, one block of four flats and one block of four bungalows at Hollow Street, Chislehurst, and the provision of external services within the curtilage of the dwellings, for R.D.C. Documents from the Council Offices, 41 Old Dover Road, Canterbury. Deposit £2 2s., cheques payable to R.D.C. Plans also seen at the office of H. V. Godfrey, architect, 63 Oxford Street, Whitestable. Tenders by March 7.

**Chester-le-Street, Dur.**—Thirty-four dwellings on West Lane estate, for U.D.C. Documents from the Engineer and Surveyor, Council Chambers, Chester-le-Street. Deposit £5 5s. Tenders by Feb. 25.

**Conisbrough, Yorks.**—Thirty-one Unity flats, March Gate, for U.D.C. Documents from C. Urch, engineer and surveyor, Council Offices, 5 High Street, Conisbrough. Deposit £2, cheques payable to U.D.C. Tenders by March 2.

**Cricklade and Wootton Bassett, Wilts.**—Ten houses and 10 bungalows at Lyneham, for R.D.C., including site and substructure works, drains, water services, fences, finishing carpet to carriageway, and complete making-up of footpaths. Documents from J. C. Grindley, engineer and surveyor, 141, High Street, Wootton Bassett. Deposit £2 2s. Tenders by March 8.

**Faringdon, Berks.**—Following for R.D.C.: (1) Site preparation works, Longworth; (2) erection of four houses and eight bungalows at Longworth; (3) site preparation works, Faringdon; (4) erection of six houses and twelve bungalows at Faringdon. Documents from the Council's Engineer and Surveyor, Council Offices, Market Place, Faringdon. Deposit £2 2s. Tenders, for whole or parts of work, by Feb. 27.

**Hartlepool, Dur.**—Houses, maisonnettes and garages, for B.C. Deposit £2. Tenders by March 7.

**Hertford.**—Erection of following, for R.D.C.: (a) Little Amwell, eight Rebecca bungalows, Downfield Road; (b) Tewin, 12 x 3 bedroom houses, four bungalows, and 11 garages at Grass Warren, together with some siteworks in each case. Applications to E. A. Williams, clerk, Wallfield, Pegs Lane, Hertford, by Feb. 13. Deposit £2 each contract.

**Inverness.**—Following trades: Mason, carpenter, glazier, roughcast, built-up-roofing, plumber, plaster and electrical works required in connection with one block of 24 flats, four storeys high, at Dunabban Road, for B.C. Documents from the Burgh Architect, 11 High Street, Inverness. Tenders by Feb. 18.

**Northwich, Ches.**—Four houses and 30 single-storey dwellings on the Malpas Road estate, for U.D.C. Documents from the Engineer and Surveyor, The Council House, Northwich. Tenders by March 7.

**Salford.**—Twenty-eight maisonnettes at Oakland Road, for City Council. Deposit £2 2s. Tenders by March 2.

**Saltash, Corn.**—Twenty-two-bedroom houses and 12 garages on the Grenfell Avenue fifth extension housing site, contract 1/1960, for B.C. Documents from A. de Barr, surveyor, Church House, Saltash. Deposit £2 2s. cheque. Tenders by Feb. 29.

**South Shields, Dur.**—One hundred and twenty houses and 43 garages at Simonside, for B.C., comprising 56 two-bedroom terrace houses, 12 corner type flats, 52 three-bedroom semi-detached houses and 43 garages. Documents from the Borough Engineer, Town Hall, South Shields. Deposit £2 2s. Tenders by March 9.

**Taunton, Som.**—Forty-two dwellings as follows, for R.D.C.: Bishops Hull, nine houses and three bungalows (also five garages); Bishops Lydeard, eight houses and eight bungalows; Cheddon Fitzpaine, three bungalows; Ruishon, four bungalows; West Monkton, seven houses. Applications to H. S. W. Stone and Partners, 20 The Crescent, Taunton, by Feb. 13. Deposit £2 2s.

**Thetford, Norfolk.**—Twenty-two dwellings on the Magdalen Street housing estate, for B.C. Documents from C. L. Lister, architect, Garsett, House, St. Andrew's Hall Plain, Norwich. Tenders by Feb. 29.

**Tonbridge, Kent.**—Following, for R.D.C.: (i) Five blocks of four one-bedroom flats at The Grove, Pembury; (ii) two blocks of four one-bedroom flats and one pair of three-bedroom houses at Riding Park, Hildenborough; (iii) one block of four one-bedroom flats and two pairs of three-bedroom houses at Twyford Road, Hadlow. Documents from the Surveyor, 48 Pembury Road, Tonbridge. Tenders by Feb. 22.

**Tipton, Staffs.**—Twelve flats in two three-storey blocks in Alexandra Road adjacent to Queens Road, for B.C. Documents from the Housing Architect, Municipal Buildings, Sedgley Road West, Tipton. Deposit £3 3s. Tenders by March 8.

**Towcester, Northants.**—Following, for R.D.C.: Contract (1) Towcester—Burcote Road—eight three-bedroom-type houses, together with drainage and site fencing; (2) Blisworth—Connegar Leys—six three-bedroom-type houses, together with street kerbing, slab paving, etc.; (3) Yardley Gobion—Warren Road—four two-bedroom bungalows, together with foul and surface water drainage; (4) Maidford—New Road—two two-bedroom-type houses, together with drainage, site fencing and tarmacadam paving. Documents from Geo. Berridge, surveyor, 163 Watling Street West, Towcester. Deposit £2 2s. each contract. Tenders by March 7.

**Truro, Corn.**—Six bungalows and four houses at St. Agnes, for R.D.C. Applications to J. H. Snellgrove and Partners, quantity surveyors, 47 Coinagehall Street, Helston, by Feb. 16. Deposit £2 2s., cheques payable to R.D.C. Tenders by March 8.

**Tynemouth, Northumb.**—Two-storey blocks of flats on th following sites, for B.C.: Six blocks, Toll Square; three blocks, Holystone

Gardens; one block, Howdon Road; one block, Verne Road. Documents from the Surveyor, 16 Northumberland Square, North Shields. Deposit £1 1s. Tenders by March 9.

**Walsall, Staffs.**—Erection of 56 houses, Beechdale estate (contract 1); 64 houses, Beechdale estate (contract 2); 54 houses, Beechdale estate (contract 3); 12 houses, Woodwards Road; 42 houses, Hildicks Bridge, Goscote Lane, for B.C. Documents from M. E. Habershon, engineer and surveyor, Council House, Walsall. Deposit £2 2s. Tenders by Feb. 25.

**West Riding.**—Detached bungalow for the caretaker at Sprotborough Richmond Hill Junior and Infants' School, for C.C. Applications to the County Architect, Bishopgarth, Westfield Road, Wakefield, by Feb. 22. Tenders by March 7.

**Winchester.**—Forty-four dwellings at Winall Manor estate, contract 6, for City Council. Applications to A. S. Wilson and Partners, quantity surveyors, 8 Storey's Gate, Westminster, S.W.1, by Feb. 11. Deposit £2 2s (cheques payable to Corporation).

#### MATERIALS AND SUPPLIES

**Audenshaw, Lancs.**—Following from April 1, 1960, to March 31, 1961, for U.D.C.: Precast concrete paving slabs and kerbs, pitch, creosote oil, gravel, broken stone, river sand, bituminous macadam and cold asphalt. Documents from the Engineer and Surveyor, Council Offices, Ryecroft Hall, Audenshaw. Tenders by March 2.

**Beddington and Wallington, Surrey.**—Following, for B.C.: (1) Re-lay slab paving and ancillary works; (2) carpet and/or reconstruct macadam footways, and ancillary works, and bulk supplies of fine cold asphalt; (3) trench reinstatements in macadam footways, and ancillary works. Documents from the Borough Engineer, Town Hall, Wallington.

**Bedfordshire.**—Supply of road materials, for C.C. Tenders by March 1.

**Billinge-and-Winstanley, Lancs.**—Supply of materials, for U.D.C. Tenders by Feb. 20.

**Bognor Regis, Sussex.**—Following for the period April 1, 1960, to March 31, 1961, for U.D.C.: (1) Tar (pressure applied); (2) tarmacadam; (3) ballast, sand, shingle, bricks; (4) cement; (5) brooms (scavenging); (6) concrete paving slabs, kerb, channel and quadrants; (7) plastic deckchair material; (8) motor haulage; (9) motor fuel. Documents from E. B. Willmott, engineer and surveyor, Town Hall, Bognor Regis. Tenders by Feb. 20.

**Bowland, Yorks.**—Supply of materials, for R.D.C. Tenders by Feb. 27.

**Burgess Hill, Sussex.**—Following during the period April 1, 1960, to March 31, 1961, for U.D.C.: Refined tar and bituminous emulsion; salt-glazed ware pipes; tarmacadam (granite, limestone and slag); granite; Portland cement; decorating materials and equipment; precast concrete kerbs, paving slabs and pipes; other miscellaneous items. Documents from the Engineer and Surveyor, Council Offices, 32 Church Road, Burgess Hill. Tenders by Feb. 17.

**Bury, Lancs.**—Following materials during year ending March, 1961, for B.C.: (Form 1) Stone flags, kerbs and setts; (2) rubble stone for pitching, broken stone for ballasting, crushed stone for concrete and quarry sand; (3) creosote, bitumen emulsion and road tar; (4) Portland cement; (5) tarred and bitumen macadam and fine cold asphalt; (6) chippings; (7) concrete flags, kerbs and edgings; (8) earthenware pipes, gullies, etc.; (9) bricks; (10) paraffin oil. Documents from Borough Engineer, Town Hall, Bury. Tenders by Feb. 20.

**Chislehurst and Sidcup, Kent.**—Supply of materials, for U.D.C. Tenders by Feb. 29.

**Crompton, Lancs.**—Supply of materials, for U.D.C. Tenders by Feb. 26.

**Darlaston, Staffs.**—Following for the year ending March 31, 1961, for U.D.C.: (1) Salt; (2) precast concrete kerbs and flags; (3) crushed gravel and sand; (4) steel clothes line posts; (5) chestnut fencing and posts; (6) copper cylinders; (7) w.c. pedestals; (8) flushing tanks (cast-iron and plastic); (9) dustbins; (10) wooden draining boards; (11) wooden w.c. seats; (12) copper pipe; (13) polythene tube for cold water services; (14) overalls; (15) tarmacadam and fine cold asphalt (supply only); (16) surface dressing of carriageways; (17) carriageway, footpath and drainage works (labour only); (18) grave slabs and kerb surrounds (supply and fix). Documents from the Engineer and Surveyor, Victoria Park, Darlaston. Tenders by Feb. 27.

**Dewsbury, Yorks.**—Supply of materials, for B.C. Tenders by March 3.

**Dewsbury, Yorks.**—Supply and delivery of approx. 40,000 gallons of petrol (to be delivered as and when required in lots of not less than 1,000 gallons) and/or 3,000 gallons of Dery fuel oil (to be delivered as, and when required, in lots of not less than 500 gallons).

for B.C. Documents from the Transport Manager, George Street Depot, Dewsbury. Tenders by Feb. 18.

**Dundee.**—Supply and delivery of road traffic signs, for B.C. Documents from the City Engineer, 21 City Square, Dundee. Tenders by Feb. 20.

**Dunstable, Beds.**—Supply of materials, for B.C. Tenders by Feb. 27.

**Ebbw Vale, Mon.**—Following for the period April 1, 1960, to March 31, 1961, for U.D.C.: (a) Engine oils and greases (summer and winter grades); (b) tar and bituminous macadam (various grades); (c) general stores; (d) window cleaning; (e) concrete products; (f) petrol, paraffin, T.V.O., gas oil and derv; (g) clean sharp sand; (h) cement (ordinary and rapid hardening); (i) concrete coarse aggregate and winter grit. Documents from J. M. Davies, engineer and surveyor, Council Offices, Ebbw Vale. Tenders by March 5.

**Flintshire.**—Supply of physical education equipment, for Co. E.C. Tenders by Feb. 26.

**Fulwood, Lancs.**—Following for 12 months ending March 31, 1961, for U.D.C.: (a) Tarmacadam and bitumen macadam; (b) hot rolled asphalt; (c) fine cold asphalt; (d) premixed waterbound macadam; (e) concrete kerbs; (f) tarmacadam (by contract); (g) commercial petrol; (h) diesel oil (automotive); (i) domestic fuel oil for central heating. Documents from the Engineer and Surveyor, Council Offices, Garstang Road, Fulwood, near Preston. Tenders by Feb. 27.

**Fyde, Lancs.**—Supply and delivery of sluice valves and air valves, for Water Board. Documents from Engineer to the Board, Sefton Street, Blackpool. Tenders by March 9.

**Garthorpe, Yorks.**—Following for 12 months commencing April 1, 1960, for U.D.C.: (1) Electric light bulbs; (2) macadam, dry and coated; (3) surface dressing of roads by pressure tanker; (4) sand and gravel; (5) concrete kerbs and flags; (6) petrol, diesel and gas oil; (7) scavenger brooms and rehling of Lewin mechanical sweeper brushes; (8) clearing of sludge from and leading of ashes to drying beds at Owlwood sewage works, Ailerton Bywater. Documents from G. N. Smith, engineer and surveyor, Council Offices, 5 Main Street, Garthorpe. Tenders by Feb. 20.

**Goldborne, Lancs.**—Supply of materials, for U.D.C. Tenders by Feb. 29.

**Gravesend, Kent.**—Supply of artificial stone paving and kerbing, for B.C. Tenders by Feb. 19.

**Haltemprice, Yorks.**—Following during the 12 month period commencing April 1, 1960, for U.D.C.: (1) Gravel; (2) sand; (3) cement; (4) whinstone chippings; (5) tarmac; (6) salt-glazed ware pipes; (7) precast concrete goods; (8) hot dressings applied; (9) clay ware field pipes; (10) protective clothing; (11) cast-iron goods; (12) dustbins; (13) road sweepers brooms; (14) motor spirit; (15) diesel/gas oil; (16) fine cold asphalt; (17) cold dressings; (18) street lighting lamps and tubes; (19) coal. Documents from the Engineer and Surveyor, Anlaby House, Anlaby, East Yorkshire. Tenders by Feb. 17.

**Haverfordwest, Pems.**—Following for a period of 12 months from April 1, 1960, for B.C.: (a) Petrol and oils; (b) precast concrete slabs and kerbs; (c) dry and tarred stone, gravel and sand; (d) building materials; (e) haulage. Documents from the Borough Surveyor, 2 Picton Place, Haverfordwest. Tenders by Feb. 22.

**High Wycombe, Bucks.**—Following for the 12 months ending March 31, 1961, for B.C.: (1) Ballast, washed sand, building sand, shingle, etc.; (2) Portland cement; (3) man-hole covers and frames, gully grates and frames, etc.; (4) granite and limestone tarmacadam; (5) concrete kerb, flag paving, etc.; (6) granite chippings; (7) petrol; (8) workmen's clothing. Documents from the Engineer and Surveyor, Municipal Offices, Queen Victoria Road, High Wycombe. Tenders by Feb. 23.

**Irlam, Lancs.**—Following for the year ending March 31, 1961, for U.D.C.: Salt-glazed ware pipes; broken stone; chippings; bitumen macadam; tarmacadam; concrete flags; concrete kerbs and channels; electric lamps; petrol. Documents from the Engineer and Surveyor, Council Offices, Irlam, Manchester. Tenders by Feb. 27.

**Isle of Wight.**—Following during the 12 months commencing April 1, 1960, for C.C.: (1) Broken stone, hardcore, gravel, clinker, ashes, aggregates for concrete, shingle and sand, blockstone and rubble—all delivered to roadside; (2) gravel aggregates delivered to roadside; (3) tar and bitumen binders; (4) tar and bituminous macadam, tar or asphalt dense surfacing, and fine cold asphalt materials (supplying or supplying and spreading); (5) lorry hire, per hour; (6) road roller hire; (7) haulage, per ton and per cu. yd.; (8) tools; (9) porous stoneware, concrete and pitch fibre, pipes, cement and bricks; (10) granite, limestone and slag—all delivered to quays. Documents from L. H. Baines, clerk of the Council,

County Hall, Newport, Isle of Wight. Tenders by Feb. 24.

**\*Lees, Lancs.**—Supply of materials, for materials, for U.D.C. Tenders by Feb. 27.

**Leyland, Lancs.**—Following during the period from April 1, 1960, to March 31, 1961, for U.D.C.: (1) Tar and bituminous compounds; (2) filled bitumen; (3) tarred and bituminous macadam; (4) granite, chippings and crushed gravel (surface dressing); (5) clinkers, ashes and shale; (6) rubble, broken stone, stone, gravel and sand; (7) concrete kerbs, flags and channels; (8) stoneware and concrete pipes, tubes, gullies and specials; (9) iron castings—gully grates, manhole covers and waterworks castings; (10) plastic compound for traffic lines; (11) motor haulage hire. Documents from F. D. Howe, engineer and surveyor, Council Offices, Leyland. Tenders by Feb. 20.

**London.**—Supply of the following, for Trinity House: Boat hooks, cleaning cloths, disinfectants, soaps, sundry cleaning stores, brooms and brushes, flags and bunting, glassware and crockery, cotton waste, chamois leathers and metal polish. Documents from the Secretary, Trinity House, Tower Hill, London, E.C.3. Tenders by Feb. 24.

**Maidstone, Kent.**—Following during the year ending March 31, 1961, for B.C.: (1) Tarred and bitumen ragstone; (2) surface dressing; (3) tarmacadam surfacing of roads and paths; (4) concrete kerbs, slabs and edging; (5) cold asphalt; (6) grit, ballast and sand; (7) dustbins; (8) chestnut spile fencing. Documents from the Borough Surveyor, Palace Avenue, Maidstone. Tenders by Feb. 22.

**Mansfield Woodhouse, Notts.**—Following, for U.D.C.: (1) Tarred macadam; (2) bituminous macadam; (3) tar for road dressings; (4) broken slag and granite for tar spraying; (5) precast (granite) concrete kerbs; (6) precast (granite) concrete paving flags; (7) scavenging brushes and rotary sweeper brushes. Documents from the Surveyor and Engineer, Council Offices, Manor House, Mansfield Woodhouse. Tenders by Feb. 27.

**Margate, Kent.**—Following, for the 12 months commencing April 1, 1960, for B.C.: (1) Kerb and channel and slabs; (2) cement; (3) concrete aggregates and building sands; (4) tarmacadam and cold asphalt; (5) brushes and brooms and general ironmongery; (6) general building materials. Documents from the Borough Engineer, 38 Grosvenor Place, Margate. Tenders by Feb. 20.

**Mexborough, Yorks.**—Following materials for the period of 12 months ending March 31, 1961, for U.D.C.: Dry and tarred slag; gravel, sand, etc.; concrete kerb, etc. Documents from the Surveyor, Council Offices, Adwick Road, Mexborough. Tenders by Feb. 27.

**Mexborough, Yorks.**—Supply and delivery of purified dried vacuum salt by air discharge for the waterworks undertaking for the period of six months ending Sept. 30, 1960, for U.D.C. Documents from the Waterworks Engineer, Council Offices, Adwick Road, Mexborough. Tenders by Feb. 27.

**Middlesbrough.**—During the year ending March 31, 1961, for Tees Valley and Cleveland Water Board: (1) Spun-iron concrete-lined pipes, 3in.-27in. diameter; (2) spun-iron concrete-lined pipes with Tyton joints, 3in.-27in. diameter; (3) cast-iron concrete-lined pipes, 25in. to 36in.; (4) cast-iron specials, unlined, 3in.-36in. diameter; (5) cast-iron bolted gland special pipes, unlined, 3in.-36in. diameter; (6) cast-iron surface boxes; (7) precast concrete ferrule box flags; (8) precast concrete sections; (9) precast concrete hydrant indicator posts; (10) bricks—common and engineering; (11) waterworks pattern double flanged sluice valves; (12) B.S.S. No. 750-1950 screw-down streamline pattern hydrants; (13) sand and gravel; (14) Portland cement; (15) paint; (16) painters' and decorators' brushes; (17) nails, screws, nuts and bolts; (18) cleaning materials; (19) protective clothing; (20) stop cocks and stop cock ferrules; (21) shovels and Newcastle draining tools; (22) electric lamps; (23) bass brooms, sweeping brushes (unshafted) and scrubbing brushes; (24) cast-iron leadless split collars; stationery—(25) section A—ruled and printed forms, plain stationery, etc.; (26) section B—ruled and printed books. Applications in writing to E. A. Morris, clerk of the Board, Water Board Offices, Corporation Road, Middlesbrough. Tenders by Feb. 24.

**Mountain Ash, Glam.**—Following for a period of 12 months commencing April 1, 1960, for U.D.C.: (1) Roadstone, dry and coated chippings and gravel; (2) sand and cement; (3) stoneware pipes and specials; (4) oils and greases; (5) ironmongery; (6) petrol and diesel fuels; (7) precast concrete kerbs and paving; (8) disinfectant and toilet rolls; (9) tyres. Documents from the Surveyor, Town Hall, Mountain Ash. Tenders by March 7.

**Newmarket, Suffolk.**—Following during the 12 months ending March 31, 1961, for U.D.C.:

(1) Cement; (2) sand and gravel; (3) granite, tarred, and bituminous and dry; (4) slag—tarred and bituminous; (5) gravel asphalt; (6) concrete paving slabs and kerbs; (7) hot tar and bituminous emulsions; (8) mechanical haulage; (9) team labour; (10) tools and brushes; (11) disinfectants, chlorine and toilet paper; (12) Lewin sweeper brushes; (13) smiths' work; (14) petrol and oils. Documents from F. B. Waterfall, engineer and surveyor, Severals House, Bury Road, Newmarket. Tenders by Feb. 22.

**Newton-le-Willows, Lancs.**—Following for the year ending March 31, 1961, for U.D.C.: (1) Concrete kerbs, flags, etc.; (2) cement; (3) broken stone and chippings; (4) sand, shale and ashes; (5) refined tar and bitumen; (6) tarspraying; (7) scavenging brushes and refitting; (8) iron castings; (9) pipes and gullies; (10) coated macadam, etc.; (11) tools; (12) hired transport. Documents from the Surveyor, Town Hall, Market Street, Newton-le-Willows, on receipt of a 6d. stamped addressed envelope. Tenders by Feb. 29.

**Northern Ireland.**—Following required for the constabulary forces, for Ministry of Home Affairs: Batteries, bulbs, torch cases, etc.; badges and buttons (metal); badges and chevrons (cloth); horn buttons; forage caps; gloves; nylon stockings. Documents from the Secretary, Ministry of Home Affairs, Stormont, Belfast, 4.

**Oldham, Lancs.**—Supply and delivery to the Corporation's various depots of petrol, diesel oil, lubricating oil, tractor vaporizing oil and paraffin during the period April 1, 1960, to March 31, 1961, for B.C. Documents from Edward Haines, town clerk, Town Hall, Oldham. Tenders by Feb. 19.

**Orpington, Kent.**—Following for the year commencing April 1, 1960, for U.D.C.: (1) Precast concrete kerbs, paving slabs, quadrants and edging boards; (2) surface dressing of roads and supply of tar; (3) cold asphalt; (4) lubricating oils and greases; (5) supplying and laying of tar-coated materials; (6) sand and ballast; (7) bituminous emulsion (cold); (8) petrol and diesel oil. Documents from the Engineer and Surveyor, Civic Offices, The Walnuts, High Street, Orpington. Tenders by Feb. 27.

**Padiham.**—Following for the 12 months ending March 31, 1961, for U.D.C.: Earthenware pipes; concrete kerbs and flags; tarmacadam; natural stone flags and kerbs; tar and bitumen; filled bitumen and filled pitch; creosote oil; cement and lime; broken stone and chippings; heavy-bodied white lead paint; turpentine; full gloss synthetic enamel and undercoating for external and internal use; emulsion paint for internal use. Documents from Alan J. Shaw, surveyor and water engineer, Town Hall, Padiham. Tenders by Feb. 28.

**Plymouth.**—Following required in connection with the erection of traditional houses and flats by direct labour, for City Council: Copper tubes and fittings; timber; combination tanks; reconstructed stone fireplaces; sheet lead; plaster lath; plaster; roof tiling (concrete), complete; pitchmastic flooring precast concrete units; sanitary fittings; salt-glazed ware; asbestos rainwater goods; cast-iron soil and vent pipes. Documents from the City Engineer, Guildhall, Plymouth.

**Poplar.**—Following for the year ending March 31, 1961, for B.C.: Broomheads (for street sweeping); chemical fluid (chlorine); fuel, gas and burning oils; bath salts; cleansing powder; scouring powder; soap dissolver; soaps and soap powders; soap substitute; disposal of second-hand paving stone, setts, etc. Documents from the Town Clerk, Poplar Town Hall, Bow Road, E.3. Tenders by Feb. 24.

**Saffron Walden, Essex.**—Following for the year ending March 31, 1961, for B.C.: Tarmacadam and bituminous macadam, asphalt and concrete (supplied); tarmacadam and bituminous macadam, asphalt (mechanically laid); fine cold asphalt; granite for surface dressing; shingle for surface dressing; surface dressing—tar and bitumen; gravel aggregates, grit and sand; salt for water softening and snow clearing; plastic white line material and road paint; concrete kerbs and paving slabs; cement; refined tar and bitumen emulsion in barrels; cutting (mechanically) roadside verges; petrol and oils; salt-glazed pipes; concrete pipes and gullies. Documents from H. C. Stacey, town clerk, Municipal Offices, Saffron Walden. Tenders by Feb. 29.

**Salford.**—Following during the period April 1, 1960, to March 31, 1961, for City Council: (1) 15ft. concrete columns; (2) 60-W sodium vapour lanterns with ancillary equipment; (3) 100-150-W class B lanterns; (4) synchronous time switches (solar dial). Documents from the Street Lighting Superintendent, 9 Frederick Road, Pendleton, Salford, 6. Tenders by March 1.

**Salisbury.**—Supply of the following materials during the year commencing April 1, 1960, for City Council: Brushes, iron castings, stone-



ware pipes, cement, roadstone, tarred and bituminous macadam, sand, ballast, concrete kerb and paving slabs, and petrol. Documents from City Engineer, The Council House, Bourne Hill, Salisbury. Tenders by Feb. 22.

**Selby, Yorks.**—Following for the year ending March 31, 1961: (1) Gravel, sand and ashes; (2) mechanical haulage; (3) team labour; (4) hire of road and footpath rollers. Documents from F. Pool, clerk of the Council, Council Offices, 1 Abbey Place, Selby. Tenders by Feb. 20.

**\*Settle, Yorks.**—Supply of road materials, for R.D.C. Tenders by Feb. 27.

**Stocksbridge, Yorks.**—Following for the year ending March 31, 1961, for U.D.C.: Dry roadstone; coated roadstone; concrete flags and kerbs; tar; bitumen. Documents from the Surveyor, Town Hall, Stocksbridge, Sheffield. Tenders by March 7.

**Stoke-on-Trent, Staffs.**—Supply of sanitary ware and fittings at Ripon Road Health Centre, for City Council. Written application to the City Architect, Kingsway, Stoke-on-Trent, by Feb. 16. Deposit £2 in notes. Tenders by March 10.

**Thingoe, West Suffolk.**—Bulk supply of petrol and diesel oil during 1960/61, for R.D.C. Documents from J. H. Whitfield, clerk of the Council, 1 Northgate Street, Bury St. Edmunds. Tenders by March 1.

**Whitworth, Lancs.**—Following for a period of 12 months commencing April 1, 1960, for U.D.C.: (1) Concrete flags and kerbs; (2) bituminous granite; (3) local broken stone; (4) sand; (5) coke and coal; (6) tools and brooms. Documents from the Engineer and Surveyor, Council Offices, Whitworth, near Rochdale. Tenders by Feb. 20.

**Wigan, Lancs.**—Following, for the year ending March 31, 1961, for B.C.: (1) Grate parts; (2) ironmongery; (3) lead; (4) plumbing materials; (5) paint brushes; (6) glass. Documents from the Borough Engineer, Municipal Buildings, Library Street, Wigan. Tenders by March 1.

**Wortley, Yorks.**—Following for the 12 months commencing April 1, 1960, for R.D.C.: (1) Cement; (2) tar and bitumen for surface dressing in bulk in barrels, and for supply and apply; (3) bituminous cold emulsion, in bulk, in barrels, and for supply and apply; (4) tarred macadam and bituminous macadam (granite, limestone and slag); (5) cold asphalt and sealing grit; (6) clean chippings and dust (granite, limestone and slag); (7) walling stone, broken stone and pitching; (8) sand and gravel; (9) concrete flags, kerbs, edging and channel blocks; (10) stoneware pipes, bends, junctions and specials; (11) bricks; (12) cast-iron gully grates and frames and manhole covers and frames; (13) tools and implements; (14) lubricating oils and paraffin; (15) coal; (16) hire of plant and transport. Documents from Engineer and Surveyor, Council Offices, Grenoside, Sheffield. Tenders by Feb. 29.

#### MISCELLANEOUS

**Norfolk.**—Following, for C.C.: Aerial survey of approximately 18 miles of highway including the supply of distortion-free aerial photographs. The survey plans are to be to a scale of 1:500 with a guaranteed accuracy such that 95 per cent. of all detail shall be plotted within 0.5mm. of their correct co-ordinate position. Documents from the County Surveyor, Council Offices, Thorpe Road, Norwich. Deposit £5. Tenders by Feb. 29.

#### PLANT AND MECHANICAL TRANSPORT

**Braintree and Bocking, Essex.**—Supply of electric pumping machinery with standby oil plant for the development of a new source of water supply, for U.D.C., comprising contract 2: (a) Duplicate booster pumps, each capable of pumping 1m. gallon in 16 hours against a head of approximately 150ft.; (b) duplicate booster plant consisting of electrically driven pumps, each capable of pumping at the rate of 20,000 g.p.h. against a head of approximately 110ft.; (c) booster pumping machinery to pump at the rate of up to 165,000 g.p.h. into supply under a variable head not exceeding approximately 100ft.; (d) an oil driven generator as a standby to run an electrically driven set (part of (c) above), duty of pump 65,000 g.p.h.; contract 3—three submersible pumps, each capable of pumping 1m. gallons in 16 hours against a head of approximately 220ft. Immediate applications to Herbert Lapworth Partners, 25 Victoria Street, Westminster, S.W.1.

**Isle of Ely.**—Following, for C.C.: One front bucket attachment for Shawnee Warrior excavator; seven 7ft. by 5ft. roadmen's shelters; two air-operated power rammers; six light towed winter grit spreaders; one small vibrating plate; one Horndraile loader for Ferguson tractor; two tractor-operated left-hand grass mowers; one portable road breaker; one 6ft. sweeper attachment to tractor; one Shawnee Warrior excavator and

tractor. Documents from the County Surveyor, County Hall, March. Tenders by Feb. 16.

**Kent.**—Supply and erection of four electrically driven vertical spindle axial flow pumps, each of 50 cusecs capacity, required for the Little Stour pumping station, which is to be constructed near Stourmouth, approximately seven miles north-east of Canterbury, for River Board. Applications in writing to the Engineer to the Board, 78 College Road, Maidstone.

**Kingston-upon-Thames, Surrey.**—Supply of two steel-bodied refuse trailers, for B.C. Documents from the Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £1. Tenders by Feb. 29.

**\*Lancashire.**—Supply of plant, for C.C. Deposit £5, payable to C.C. Tenders by March 5.

**Loughborough, Leics.**—Supply and delivery of one Karrier Bantam refuse wagon with 11ft. 5in. wheelbase chassis and equipped as follows, for B.C.: Six-seater crew-type cab; Rootes light diesel engine; four speed gear box; hydraulic brakes; 12 volt electrical equipment; 27in. x 6in. tyres; front shock absorbers; special front and rear springs; all steel 10 cu. yd. refuse body and tipping gear; painted and lettered; fitted with number plates. Tenders to Arthur Usher, town clerk, Southfields, Loughborough, by Feb. 16.

**Northern Ireland.**—Following, for Milk Marketing Board: Supply of four new Bedford (4-ton) vehicles and for the purchase of used motor vehicles. Documents from General Manager, Milk Marketing Board for Northern Ireland, Castlehill Road, Belfast, 4. Tenders by Feb. 19.

**Plymouth.**—Supply and delivery to Prince Rock Depot, Macadam Road, of the following, for City Council: Four Lloyds 27in. side wheel motor mowers; two Atco 24in. four-stroke motor mowers, complete with grass boxes and carriers; one set Ransomes quintuple gang mowers, with steel wheels and single point attachment (arrangement A). Delivery dates should be stated. Tenders in sealed envelopes endorsed "Tender for mowers," to the Town Clerk, Pounds House, Plymouth, by Feb. 24.

**Taunton, Som.**—Supply of one new Dinkum Digger Major on Fordson chassis with front loader, for B.C. Documents from W. J. Wonnacott, waterworks engineer and manager, Flook House, Station Road, Taunton. Tenders by Feb. 23.

**Tendring, Essex.**—Following, for R.D.C.: Supply of one new 12 cu. yd. 4-ton L.W.B. Bedford/Eagle side-loading refuse collection vehicle with petrol engine; hydraulic ram to be supported with body stabiliser; salvage rack (6ft. 6in. by 4ft. 3in. by 1ft. 6in.) to be fitted on roof of cab. The Council may require an old side-loading refuse collection vehicle to be taken in part exchange. Documents from Chief Public Health Inspector, Council Offices, Weeley, near Clacton-on-Sea. Tenders by Feb. 29.

#### PLAYING FIELDS, PARKS, ETC.

**Dudley, Wores.**—Following, for B.C.: (a) School playing field at Sycamore Green; (b) finishing works on Old Park Farm estate, comprising (a) 3,800 lin. yd. of bulk excavation, sub soil drainage; 9,000 sq. yd. of turfing, and 1,100 sq. yd. of 2in. tramacadam-asphalt footpath; (b) 4,300 cu. yd. of bulk excavation; 3,750 sq. yd. of tramacadam asphalt surfacing; 12,300 sq. yd. of seeding, and 11,400 sq. yd. of turfing. Applications to the Borough Engineer, The Council House, Priory Road, Dudley, by Feb. 9. Deposit £2 2s. each contract.

**Kidsgrove, Staffs.**—Complete reconstruction of Clough Hall Football Field, for U.D.C. The works comprise the breaking-up of the existing surface, drainage, filling to low areas, grading, soiling and seeding. Documents from the Engineer and Surveyor, Town Hall, Kidsgrove, Stoke-on-Trent. Deposit £2 2s. Tenders by Feb. 17.

**\*Lancashire.**—Development of playing fields and fencing at various schools, for C.C. Apply by Feb. 26.

**Portadown, Armagh.**—Completion of a sports ground, known as the Hegan Ground, Bridge Street, Portadown, for Sports Ground Committee. Documents from H. M. Thompson, Church Place, Portadown. Tenders by Feb. 18.

**Sunderland, Dur.**—Construction of a children's playground at Allendale Road, Farringdon estate, for B.C. Documents from Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. Tenders by Feb. 16.

**Swansea.**—Layout of grounds as Clase and Bonymaen County Primary Schools, for B.C. The work includes excavation, filling, removal of surplus material, levelling, tilting and seed ing, with subsoil drainage and other contingent works over an area of approx. 34,300 and 17,500 sq. yd. respectively. Documents from J. Owen Parry and Lewis, civil engineers, Arcade Chambers, College Street, Ammanford, South Wales. Deposit £5 5s, payable to Consulting Engineers. Tenders by Feb. 29.

**Walsall, Staffs.**—Construction of approximately eight acres of playing fields, involving land drainage, site grading and the construction of Redgra pitches, concrete cricket wickets and jumping pits at Whateley Road School, for B.C. Documents from M. E. Habershon, engineer and surveyor, Council House, Walsall. Deposit £5 5s. Tenders by Feb. 23.

#### ROADS, BRIDGES AND SITE WORKS

**\*Bedworth, War.**—Roads and sewers, Exhall industrial site, stage 1, contract II, for U.D.C. Deposit £10 10s (cheques payable to U.D.C.). Tenders by March 14.

**\*Bentley, Essex.**—Private street works, for U.D.C. Apply by Feb. 22. Deposit £2.

**\*Berkshire.**—Reconstruction of Broad Lane, Bracknell, for C.C. Deposit £2 2s. Tenders by Feb. 18.

**\*Bilston, Staffs.**—Lowering of Cosley Road, for B.C. Apply by Feb. 19. Deposit £5 5s (cheques payable to Corporation).

**\*Birkenhead, Ches.**—Improvement Pensby Road, for B.C. Tenders by Feb. 22.

**\*Birmingham.**—Widening of Coventry Road, for City Council. Deposit £2 2s (cheques payable to City Surveyor). Tenders by Feb. 24.

**\*Bradford, Yorks.**—Asphalt surfacing, for City Council. Deposit £2 2s. Tenders by Feb. 23.

**\*Braintree and Bocking, Essex.**—Roads and sewers, Candlestick Meadow, for U.D.C. Deposit £2 2s. Tenders by Feb. 26.

**\*Breckshire.**—Surface dressing, 1960, for C.C. Tenders by March 7.

**\*Brierley Hill, Staffs.**—Resurfacing county roads, for U.D.C. Deposit £2 2s. Tenders by Feb. 29.

**\*Brighton, Sussex.**—Roadworks at Warren Road-Falmer Road, Woodingdean, for B.C. Tenders by Feb. 27.

**\*Camberwell.**—Widening of A.205, Lordship Lane (part), for B.C. Deposit £3 3s. Tenders by March 8.

**Carlton, Notts.**—Following, for U.D.C.: Construction of sewers, carriageways, footpaths and incidental works, at (a) Bakewell Avenue, (b) Belper Avenue. Documents from E. C. Kirk, surveyor, Council House, Burton Road, Carlton. Deposit £2 each contract. Tenders by Feb. 24.

**Chigwell, Essex.**—Various works at Fairview Road, for U.D.C., comprising approximately 270 lin. yd. surface water sewer, carriageway drainage, 680 lin. yd. kerbing, 1,970 sq. yd. carriageway, 730 sq. yd. footways. Documents from the Surveyor, Council Offices, Old Station Road, Loughton. Deposit £2 2s. Tenders by March 1.

**Epsom and Ewell, Surrey.**—Construction of approximately 230 lin. yd. of tarmacadam footpath and fencing at light industrial estate, for B.C. Documents from Colin Cobbett, engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by Feb. 19.

**\*Evesham, Wores.**—Advance preparation of Bewdley Lane housing site, for B.C. Deposit £2 2s. Tenders by Feb. 29.

**Exeter.**—Construction of carriageways, footways, surface water drainage, etc., at Countess Wear roundabout, for City Council, comprising the laying of approximately 3,800 sq. yd. of 9in. reinforced concrete carriageway and 1 1/2in. hot rolled asphalt surfacing, 200 sq. yd. of 9in. pitching stone and bitumen macadam, 1,200 sq. yd. of precast concrete and tar-paved footways, 900 lin. yd. of concrete kerbing and other incidental works. Documents from John Brierley, engineer and surveyor, Municipal Offices, 7 Southernhay West, Exeter. Deposit £2 2s. Tenders by Feb. 22.

**Flint.**—Advance preparation works at Pen Goch housing estate, for B.C. Construction of works comprising approximately 7,350 super. yd. of hardcore roads, including formation excavation to roads and footways; construction of kerb race and 2,450 lin. yd. 2lin. to 9in. foul and surface water sewers, including p.c. and brick manholes, road gullies, and incidental works. Documents from the Engineer and Surveyor, Municipal Offices, Earl Street, Flint. Deposit £2 2s. Tenders by Feb. 29.

**Fraserburgh, Aberdeens.**—Fabrication and erection of two opening bridges in connection with the proposed improvements at Faithlie Basin, for Harbour Commissioners. The bridges will be of the traversing type. One bridge, for vehicles, will be electrically operated and will span a 40ft. clear opening. The other will be a hand-operated footbridge spanning a 27ft. skew opening. Applications to Leitch and Sharpe, consulting engineers, 65 Bath Street, Glasgow, C.2, before Feb. 19.

**Hastings, Sussex.**—Construction at the Ponswood industrial estate extension of 3,050 sq. yd. of reinforced concrete carriageway, 810 lin. yd. of foul and surface water sewer, maximum size 15in. diameter and incidental works, including manholes, etc., for B.C. Documents from the Engineer, 37 Wellington



Square, Hastings. Deposit £2 2s. Tenders by Feb. 25.

**Hatfield, Herts.**—Construction of a new road, sewers, traffic signals and ancillary works consisting of approximately the following, for the Development Corporation: 7,200 super yd. carriageway with lean-mix concrete foundation, and tarmacadam surface; 3,300 super yd. tarmacadam footways; 2,000 lin. yd. 8in. x 6in. precast concrete kerbs; 850 lin. yd. 9in. dia. concrete surface water sewer; ten concrete manholes; 50 concrete gullies; one set traffic control signals. Documents from the Chief Engineer at 4 Wigmores South, Howardgate, Welwyn Garden City. Plans may be inspected during normal office hours at the Area Office, 30-34 Market Place, Hatfield. Tenders by Feb. 22.

**Inverness.**—Construction of access roads at Portree housing site, for C.C. Documents from Surveyor, County Buildings, Ardross Street, Inverness. Tenders by Feb. 17.

**Kendal, Westmor.**—Construction of the roads and sewers required in connection with the development of approximately 20 acres of land as an industrial area at Shap Road, for B.C. Documents from Engineer and Surveyor, Municipal Offices, Lowther Street, Kendal. Deposit £2 2s. Tenders by Feb. 18.

**Lancashire.**—Following, for C.C.: Roadworks and bridgeworks in the extension of the Widnes Approach Road, contract B, from the termination of contract A northwards towards Ditton Road. The roadworks comprise about 210 lin. yd. of the Widnes Approach Road and about 270 lin. yd. of a Slip Road leading to the trading estate. The bridgeworks comprise the construction of a two-span bridge, 123ft. long over private sidings, a single 77ft. span bridge over a main line railway, and a reinforced concrete retaining wall 285ft. long. The Decks consist of steel girders carrying a reinforced concrete road slab, and the abutments and wing walls are of brick-faced mass concrete. All foundations are supported on bored cast in-situ piles. Documents from County Surveyor, P.O. Box 9, County Hall, Preston. Deposit £25, cheques payable to C.C. Tenders by March 7.

**Leicester.**—Following at Glen Parva estate, for City Council: Approximately 7,460 sq. yd. macadam footway; approximately 7,400 in. yd. precast concrete kerbs and edging kerbs; approximately 5,530 sq. yd. turling and soiling of verges and open spaces. Documents from John L. Peckett, city surveyor, Town Hall, Leicester. Deposit £1 ls. Tenders by March 7.

**Maidstone, Kent.**—Provision of a footpath and general excavation works to a riverside walk, including surfacing with tarmacadam, for B.C. Documents from the Borough Surveyor, Palace Avenue, Maidstone. Tenders by March 7.

**Merionethshire.**—Surface dressing of trunk and county highways during the year commencing April 1, 1960, for C.C. Applications, with s.a.e., to County Surveyor, County Offices, Peniarth, Dolgellau. Tenders by Feb. 22.

**Middlesex.**—Demolition and reconstruction of bridge over the River Frays, for C.C. Deposit £10. Tenders by March 16.

**Northampton.**—Town centre roads reconstruction—phase II, for B.C. Supply and laying by machine of approximately 3,500 sq. yd. two-course hot rolled asphalt. Documents from the Engineer, Guildhall, Northampton. Tenders by Feb. 19.

**Northfleet, Kent.**—Following, for U.D.C.: Private street works—the construction of streets totalling some 8,200 sq. yd. of hardcore and macadam carriageway, with footpaths and surface water drainage; sewers—the laying of some 2,500 lin. yd. of 6in. diameter sewers, up to 18ft. in depth together with some 630 lin. yd. of 4in. house drain connections. Documents from the Engineer and Surveyor, Town Hall, Northfleet. Deposit £2 2s. Tenders by March 1.

**Orpington, Kent.**—Making-up of north accommodation road, for U.D.C. Deposit £2. Tenders by Feb. 26.

**Renfrewshire.**—Removal of tramway track and reinstatement between Eastwood Toll and the Glasgow city boundary, a distance of approximately 2,240 lin. yd., for C.C. Documents from the Surveyor, County Buildings, Paisley. Tenders by Feb. 26.

**Royton, Lancs.**—Renewal of kerbing and flagging of footways, and the supply of all materials, labour and plant, for U.D.C. Documents from the Surveyor, Town Hall, Royton. Tenders by Feb. 29.

**St. Albans.**—Constructing a hardstanding of approximately 800 sq. yd. in hardcore and tarmacadam at Marshalwick estate, for City Council. Documents from the Engineer and Surveyor, 16 St. Peter Street, St. Albans. Tenders by Feb. 25.

**Salisbury and Wilton, Wilts.**—Construction of main site works in the village of Fovant, consisting of a tarmacadam road, footpaths, drains and water main, for R.D.C. Documents

from C. S. Brown, clerk of the Council, Council Offices, 26 Endless Street, Salisbury. Deposit £2 2s. Plans seen at the offices of the architects, Bothams and Brown, 32 Chipper Lane, Salisbury. Tenders by March 10.

**Stockport, Ches.**—Carrying out the realignment, super-elevation and resurfacing of Crossley Road, for B.C., comprising 3,000 sq. yd. of base course in bituminous macadam, 3,000 sq. yd. of wearing course in machine-laid bituminous surfacing, 1,500 sq. yd. flagging, 700 lin. yd. kerbing, drainage and other incidental works. Documents from Surveyor, Town Hall, Stockport. Tenders by Feb. 16.

**Stourbridge, Wores.**—Making-up of approx. 100yd. of carriageway, footways and verges at Westwood Avenue on the Norton estate, for B.C. Documents from H. W. Morris, engineer and surveyor, Council House, Stourbridge. Deposit £2 2s. Tenders by March 4.

**Stretford, Lancs.**—Resurfacing of the playgrounds at Moss Park Schools, Moss Park Road, Stretford, with hot-rolled asphalt on the existing base courses, for B.C. Documents from A. H. Perry, borough engineer and surveyor, Town Hall, Stretford. Deposit £2. Tenders by Feb. 20.

**Swansea.**—Roadworks in St. John's Road, Manselton, for B.C., comprising 615 cu. yd. of excavation, 2,278 sq. yd. of bituminous macadam surfacing on existing hardcore, 261 lin. yd. kerbing, 392 sq. yd. of concrete flag paving, together with verges, surface water drainage, lighting and other incidental works. Documents from Engineer and Surveyor, St. Faith's Hall, St. Helen's Road, Swansea. Deposit £2. Tenders by Feb. 25.

**Swansea.**—Carrying out of private street works in St. John's Road, Manselton, for B.C. The works comprise 615 cu. yd. of excavation, 2,278 sq. yd. of bituminous macadam surfacing on concrete flag paving, together with verges, surface water drainage, lighting and other incidental works. Documents from the Engineer and Surveyor, St. Faith's Hall, St. Helen's Road, Swansea. Deposit £2. Tenders by Feb. 25.

**Swinton, Yorks.**—Road works on the Thomas Street estate extensions, comprising the construction of approximately 2,250 sq. yd. of carriageway in hard-core pitching and 400 lin. yd. of 9in. pipe sewer. Documents from the Engineer and Surveyor, Council Offices, Swinton, near Mexborough. Deposit £2 2s. Tenders by Feb. 16.

**Torquay, Devon.**—Provision and mechanical laying of hot rolled asphalt on various roads, involving approximately 22,000 sq. yd. of surfacing, for B.C. Documents from the Engineer, Town Hall, Torquay. Deposit £2 2s. Tenders by Feb. 20.

**Tottenham, Middx.**—Reconstruction of Clyde Road, for B.C. Deposit £2. Tenders by Feb. 24.

**Uckfield, Sussex.**—Following, for R.D.C.: Uckfield—construction of 140 lin. yd. of tarmacadam carriageway with paths; Crowborough—surfacing of 1,600 super. yd. of hardcore road, with concrete paths; Frant—surfacing of 520 super. yd. of hardcore road. Documents from the Surveyor, Council Offices, Beacon Road, Crowborough. Deposit £2 2s. Tenders by March 7.

**Walthamstow, Essex.**—Construction of the improvement of the junction of Wood Street with Lea Bridge Road, for B.C., comprising the widening and resurfacing of the existing carriageway, the construction of a short super-elevated curve, together with kerbing footway verge drainage and other ancillary works, over a length of approximately 130yd. Documents from the Architect, Town Hall, Forest Road, Walthamstow. Deposit £2 2s. Tenders by Feb. 22.

#### SEWERAGE, SEWAGE AND REFUSE DISPOSAL

**Ashbourne, Derbys.**—Construction of approximately 1,000yd. of 6in. sewer and appurtenant works at Hulland Ward, for R.D.C. Documents from H. Litchfield, surveyor, Compton Offices, Ashbourne. Deposit £1 ls. Tenders by Feb. 19.

**Basingstoke, Hants.**—Main drainage of Basing, B5 contract 3, for R.D.C., comprising construction of approximately 10,000yd. of small diameter sewers and rising main, the construction of a sewage pumping station, extensions to an existing sewage disposal works and other ancillary works. Documents from the offices of Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, S.W.1, by Feb. 19. Deposit £5 5s. (cheques payable to R.D.C.). Plans also seen at the Council Offices, Eastlands, London Road, Basingstoke, by appointment with the Surveyor. Tenders by Feb. 29.

**Bullington, Oxon.**—Following, for R.D.C.: (1) Sewer extension, Old Road, Wheatley—approximately 850yd. of 6in. sewer, together

with ancillary works; (2) improvement works, school premises, Towersey—conversion of main building into two dwellings and the provision of bathroom to the school house, together with drainage and ancillary works; (3) sanitary improvements—provision and improvement of sanitary accommodation and certain drainage work to 1-4 The Croft, Marsh Baldon, and 1-6 Ford Lane, Drayton St. Leonard. Documents from Engineer and Surveyor, Arlington House, 76 Banbury Road, Oxford. Deposit £2 2s. each contract. Tenders by Feb. 22.

**Cambridge.**—Surface water relief sewer, Cromwell Road, for City Council. Deposit £2 2s. (cheques payable to Corporation). Tenders by March 10.

**Clacton, Essex.**—Western area drainage, sea outfall, contract 7, comprising the construction of the following works, for U.D.C.: (a) 36in. diameter cast- and spun-iron outfall sewer, of which some 5,000ft. will be laid in trench inshore and some 2,000ft. will be laid across the foreshore and in the sea bed, also in trench; (b) extension of a 51in. diameter steel outfall sewer some 230ft. The outfall will be laid in trench, and the work extends from a point near the low water mark. The contract also includes for the removal and disposal of an existing 12in. diameter outfall sewer consisting partly of stoneware pipes surrounded by concrete and partly of cast-iron pipes supported on cast-iron piles. Documents from John Taylor and Sons, consulting engineers, Artillery House, Artillery Row, Westminster, S.W.1. Deposit £5 (cheques payable to U.D.C.). Plans also seen at the office of the Engineer and Surveyor, Town Hall, Clacton-on-Sea. Tenders by Feb. 29.

**Easthampstead, Berks.**—Construction of 744 lin. yd. of 6in. diameter glazed stoneware sewers, 457 lin. yd. of 4in. diameter asbestos-cement rising main, diverter station, manholes, laterals and other ancillary works at North Road, Church Road and Longhill Road, Chavey Road, Bracknell, and Grove Lane, Winkfield, for R.D.C. Documents from the Engineer and Surveyor, Church Road, Bracknell. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Feb. 25.

**Easthampstead, Berks.**—Construction of 86 lin. yd. of 6in. diameter glazed stoneware sewer, manhole, lateral and other ancillary works, at Jigs Lane, Warfield, for R.D.C. Documents from the Engineer and Surveyor, Church Road, Bracknell. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Feb. 25.

**Fylde, Lancs.**—Laying of 600yd. of 9in. diameter s.g.w. pipes and the construction of appurtenant manholes and house drains at Newton, near Kirkham, for R.D.C. Documents from the Engineer and Surveyor, 29a Station Road, Kirkham. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Feb. 23.

**Hambledon, Surrey.**—Reconstruction of two sludge drying beds in concrete, having a total area of 525 sq. yd., at Cranleigh sewage disposal works, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Bury Fields, Guildford. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by March 7.

**Hitchin Herts.**—Sewerage contract 8, for R.D.C. Deposit £10. Tenders by Feb. 22.

**Ipswich, Suffolk.**—Ejector station replacement scheme, for B.C. Construction of five reinforced concrete pumping stations, superstructures to the same, one motor house, and approx. 1,250 lin. yd. of spun-iron rising main, together with sewerage and ancillary works. Documents from the Engineer and Surveyor, 19 Tower Street, Ipswich. Deposit £5 5s. cheque. Tenders by Feb. 29.

**Llanely, Carmar.**—Construction of a pumping station at the North Dock, and extension of an existing pumping station at Sandy, including rising mains and sewer extensions, for R.D.C. Documents from R. C. Jones, engineer, Castle Buildings, Llanely. Deposit £5 5s. Tenders by Feb. 18.

**Londonderry.**—Laying of approximately 1,024 lin. ft. of 9in. diameter stoneware sewer and other incidental works at Dunfield Terrace, Strabane Old Road, for City Council. Documents from the City Engineer and Surveyor, 5 Guildhall Street, Londonderry. Deposit £5 5s., cheques payable to City Accountant. Tenders by Feb. 27.

**Luton, Beds.**—Minor capital works, East Hyde sewage disposal works, contract I, for B.C. Deposit £2 2s. (cheques payable to Corporation). Tenders by Feb. 26.

**Maidenhead, Berks.**—Sewage works extension, stage II, contract III, for B.C. Deposit £3. Tenders by March 10.

**Middleton, Lancs.**—Construction of approximately 100 lin. yd. of 6in. diameter porous concrete pipe drains and appurtenant works at Boarshaw Cemetery, for B.C. Documents from Engineer and Surveyor, Town Hall, Middleton. Tenders by Feb. 20.

**Midlothian.**—Construction of 130 lin. yd. of 4in. diameter fireclay subsoil drain, five to seven feet deep, at Chapelton Drive, Limefield, West Calder, for C.C. Documents from the County Engineer, 32 Palmerston Place, Edinburgh.

**Montgomeryshire.**—Domestic improvements and sewage disposal works at Oakwood and Hillfield, Llanfyllin, for C.C. Documents from D. A. Cresswell, land agent, County Offices, Welshpool. Tenders by Feb. 19.

**Okehampton, Devon.**—Sticklepath sewerage and sewage disposal, for R.D.C., comprising the construction of an ejector station, eight brick and concrete manholes; the laying of approximately 381 yd. of 6in. diameter sewers and 22 yd. of 4in. diameter rising main. Documents from the Chief Public Health Inspector, Council Offices, Oaklands Drive, Okehampton. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by March 11.

**Rayleigh, Essex.**—Soil sewer diversion, Station Crescent/Down Hall Road, for U.D.C., comprising construction of approximately 70 lin. yd. of 9in. diameter glazed stoneware soil sewer and approximately 50 lin. yd. of 9in. diameter steel suspended soil sewer, together with incidental works of manhole construction and alterations. Documents from the Engineer and Surveyor, Council Offices, Rayleigh. Tenders by Feb. 19.

**Romford, Essex.**—Construction of about 4,500 lin. yd. of 3in. and 6in. land drains, with ancillary works, at Dagnam Park, for B.C. Documents from Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. (cheque). Tenders by Feb. 23.

**Rowley Regis, Staffs.**—Construction of approximately 110 lin. yd. of 12in. diameter foul sewer and 55 lin. yd. of 21in. diameter storm-water sewer, together with manholes and ancillary works, at Dudley Road West and Hill Road, Tividale, for B.C. Documents from S. G. Wood, engineer, Municipal Buildings, Old Hill, Staffs. Deposit £2 2s. Tenders by Feb. 26.

**St. Albans.**—Making-up, sewerage and paving of Mount Drive and The Rise, comprising the following works, for City Council: 1,608 lin. yd. of 6in. and 9in. diameter g.s. sewers; 3,208 sq. yd. of bitumen macadam carriageway; 1,897 sq. yd. a.s. paving. Documents from the Engineer and Surveyor, 16 St. Peter's Street, St. Albans. Tenders by Feb. 22.

**Skipton, Yorks.**—Hebden sewerage and sewage disposal scheme, for R.D.C., comprising construction of approximately 2,278 lin. yd. of 6in. salt glazed ware sewers, 154 lin. yd. 6in. cast-iron sewers and 47 brick manholes, together with the new sewage disposal works, comprising detritus tanks, percolating filters, storm water tanks, humus tanks, sludge drying bays and other appurtenant works. Documents from the Surveyor, Council Offices, Granville Street, Skipton. Deposit £3 3s. Tenders by Feb. 26.

**Southam, Wores.**—Following, for R.D.C.: (1) Long Itchington, contract 7—approximately 3,650 yd. of 9in. and 6in. diameter sewers, 950 yd. of 4in. diameter iron pipe pumping mains, the construction of two pumping stations, two additional bacterial filters, sludge drying beds and incidental works; (2) Priors Marston, contract 1—approximately 3,100 yd. of 9in. and 6in. diameter sewers, including pumping station, settling tanks, sludge drying beds and incidental works; (3) Stockton, contract 8—approximately 2,500 yd. of 9in. and 6in. diameter sewers and incidental work. Written applications to Richards and Dumbleton, Cornwall Buildings, 45 Newhall Street, Birmingham, 3. Deposit £3 3s. each contract, by cheque, payable to R.D.C. Tenders by Feb. 27.

**\*Uckfield, Sussex.**—Maresfield village sewerage, for R.D.C. Deposit £3 3s., payable to R.D.C. Tenders by March 14.

**\*Warwick, War.**—Shrewley sewerage and sewage disposal scheme, contract 12, for R.D.C. Deposit £10 10s. (cheques payable to R.D.C.). Tenders by March 28.

**Workop, Notts.**—Following, for B.C.: Removal of an existing surface water sewer in Beaver Place, Eastgate and Gateford Road, and its replacement by a new sewer, 39in. to 63in. in diameter; also for the construction of a new surface water sewer in Carlton Road, 24in. to 27in. diameter. Documents from the Borough Engineer, Park House, Workop. Deposit £5 5s. Tenders by March 2.

#### STREET LIGHTING

**Dartford, Kent.**—Group A street lighting, St. Vincent's Road, for B.C., comprising supply and erection of 17 complete lighting units, including 25ft. reinforced concrete columns and 400-W MBF/U lamps and lanterns. The work includes removal of existing lighting equipment. Documents from Thos. Armstrong, town clerk, Council Offices, Dartford. Deposit £2 2s. Tenders by Feb. 16.

**Newcastle-under-Lyme, Staffs.**—Supply, delivery and installation of 23 200-W sodium vapour group A lighting units, including 30ft. mounting height plain tubular steel columns, 200-W sodium lanterns, lamps and ancillary equipment, for B.C., on the north of Newcastle-under-Lyme-Nantwich-Tarporley-Tarvin trunk road A.52. Documents from the Engineer, Lancaster Building, High Street, Newcastle. Tenders by March 7.

#### INTERNATIONAL CONTRACT

**Nyasaland.**—Supply, delivery and erection of pumping plant in the Blantyre district for contract III of the Walker's Ferry scheme, for Mudi River Water Board, comprising the supply, delivery and erection of the following electric motor-driven pumping equipment: (1) Submersible pump/motor sets or spindle-driven borehole pump/motor sets to pump raw water; four units; voltage 400; capacity 41,750 g.p.h.; maximum pumping head 130ft.; (2) high lift pump/motor sets to pump treated water at Walker's Ferry; two units; voltage 3,300; capacity 41,750 g.p.h. maximum pumping head 1,385ft.; (3) high lift pump/motor sets to pump treated water at Chileka; two units; voltage 3,330; capacity 41,750 g.p.h.; maximum pumping head 1,350ft.; (4) medium lift pump/motor sets to pump treated water at Soche; two units; voltage 400; capacity 41,750 g.p.h.; maximum pumping head 330ft. The contract also includes the supply, delivery and erection of electric motor starters, instruments and controls, raw water screens, station valves, sluices and pipework and other ancillary equipment. Documents from Scott and Wilson, Kirkpatrick and Partners, consulting engineers, 47 Victoria Street, London, S.W.1. Deposit £20, in the form of a banker's draft, payable to the Board. Tenders by May 10.

#### AWARDS

##### BUILDING AND DECORATING

(See also Housing Schemes)

**Acton, Middx.**—Erection of new cold store at Atlas Road, for T. Wall and Sons, Ltd. J. Stanley Beard, Bennett and Wilkins, architects, National Bank House, 101-103 Baker Street, London, W.1. Sir Robert McAlpine and Sons, Ltd., 80 Park Lane, S.W.1. The store will be built on new-type drilled cylindrical concrete foundations created by Economic Foundations, Ltd., 161 Victoria Street, S.W.1.

**Barnsley, Yorks.**—Development of Mount Vernon Hospital, for Sheffield Regional Hospital Board: Arthur Waterman, Ltd., Moorland Works, Gelderd Road, Leeds, 12. £224,062 (recommended).

**Belfast.**—Erection of offices, a drill hall, officers', sergeants' and other ranks' messes, etc., at Territorial Army Centre, Girdwood Park, Antrim Road. Smyth and Cowser, architects, 31 College Gardens, Belfast: Hogg Bros., 35a Glenbank Place, Belfast. Estimated cost £110,000.

**Bournemouth, Hants.**—Redevelopment of Bowmaker House, Christchurch Road, for Bowmaker, Ltd. Jackson and Greenen, architects, Hinton Buildings, Hinton Road: James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth, £366,992.

Rebuilding and extending banking premises, Old Christchurch Road, for Midland Bank, Ltd. Whinney, Son and Austen Hall, architects, 37 Norfolk Street, Strand, London, W.C.2: James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth, £64,167.

Extensions to factory at Francis Avenue, West Howe, for Max Factor and Co. James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth, £39,833 (negotiated contract).

Erection of lift shaft and installation of staff/goods lift at Beales, for J. E. Beale, Ltd. Jackson and Greenen, architects, Hinton Buildings, Hinton Road: James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth (negotiated contract). Estimated cost £10,000.

**Bristol.**—Following works, for City Council: Erection of public conveniences at Redcatch Park and Hillfields recreation ground—Direct Labour (recommended), estimated cost £2,600 and £2,800, respectively.

Rebuilding of the brickwork to the No. 2 chamber of the twin crematorium at Canford crematorium—Dowson and Mason, Ltd., Alma Works, Manchester, 19 (recommended). Estimated cost £750.

**Chelsea.**—Major repairs, redecorations and minor improvements at Marlborough Primary School, for L.C.C.: Hotson Bros., Ltd., 37 Balham Park Road, London, S.E.12. £20,933 (accepted); Buckingham and

Sons, Ltd., £21,759; A. H. Franklin and Son, Ltd., £22,468; Collis and Co., Ltd., £22,690; S. C. Grover, Ltd., £25,762; E. J. Lacy and Co., Ltd., £25,983; Sims and Russell, Ltd., £27,986.

**Cheltenham, Glos.**—Following works, for B.C. Erection of public conveniences at the shopping centre, Edinburgh Place: Ford and Weston, Ltd., 34 Imperial Square, Cheltenham, £3,282; redecoration of hangar S.E.1 at the airport: B. D. Gibbs and Son, Ltd., £683 (recommended).

**Chichester, Sussex.**—Erection of a staff hostel unit at St. Richard's Hospital, for South West Metropolitan Regional Hospital Board: C. W. Pile, Ltd., Pound Farm Road, Chichester, £14,783 (recommended).

**Dundee.**—Erection of repair and sales depot at Kingsway West, for Oswald Tillotson, Ltd., Summit Works, Burnley, Lancs.: The Kelvin Construction Co., Ltd., Lockburn Road, Maryhill Road, Glasgow, N.W.

**Fulham.**—Improvements to sanitary accommodation at Queen's Manor Primary School, for L.C.C.: A. H. Franklin and Sons, Ltd., 261 Lillie Road, London, S.W.6. £5,354.

**Gateshead, Dur.**—Bakery extensions on Team Valley trading estate for Hunters the Bakers, Ltd.: Lowton Construction Co., Leigh, Lancs., £180,000. Work commenced.

**Great Yarmouth, Norfolk.**—Construction of 20 garages and handstanding at Western Road, Gorleston, for B.C.: H. A. Holmes and Sons, Ltd., South Ice House Hill, Gorleston, Great Yarmouth, £3,550 (recommended, subject to Ministry approval).

**Grimsby, Lincs.**—Erection of boilerhouse at Scartho Road Hospital, for Sheffield Regional Hospital Board: H. Faulkner, Ltd., 47a Yarrowburgh Street, Grimsby, £3,835 (recommended).

**Guildford, Surrey.**—Erection of Civic Hall, for B.C. Architect is Peter Shephard of Bridgewater and Shephard, 42 Bruton Place, Berkeley Square, London, W.1: Dove Bros., Ltd., Cloudestley Place, London, N.1. £230,097. Work expected to commence in April.

**Haverfordwest, Pems.**—Erection of county police headquarters with county health offices, clinic, ambulance station and four houses, and the New Tasker's Girls' School, for C.C. Lt.-Col. Walter Barrett, county architect: William Eaves and Co., Ltd., Marton, Blackpool. Estimated cost £280,000.

**Haverhill, Suffolk.**—Erection of a block of eight garages together with a concrete apron and other ancillary works at Western Avenue, Parkway estate, for U.D.C. I. H. Seeley, engineer and surveyor: M. H. K. Brown, Linton, Cambs., £1,513. Work commencing April.

**Hertford.**—Redecoration of the ground floor at The Castle (in two stages), for B.C.: Direct Labour (recommended). Estimated cost £1,000.

**Horden, Dur.**—Alterations to provide garage and warehouse at Horden, for the Sherburn Hill Co-operative Provision Society. Plans by the C.W.S. Architects' Department, 90 Westmorland Road, Newcastle upon Tyne: C.W.S. Building Department Benton Road, Newcastle upon Tyne.

**Huntingdon.**—Erection of a depot at Alconbury for the Council's vehicles, for R.D.C. The structure is of brickwork with an asbestos-cement roof. K. A. Milner, architect, of Lea, Milner and Wardley, 4 Market Hill: R. Storey, 11 Rusts Lane, Alconbury, Hunts., £3,711 (accepted); Hale Bros., £4,436; Pettits, Ltd., £4,335; F. C. Whittaker, £4,345; George Wrycroft and Sons, £5,598.

**Kirkby, Lancs.**—Supply and erection of one aluminium alloy greenhouse, approximate size 50ft. long by 12ft. wide, including all glazing, staging and an oil-burning heating system (the building of the boiler house and the brick foundation to the greenhouse does not form part of this contract), for U.D.C.: Plant house—Waldor Tool and Gauge Co., Ltd., Droitwich, Wores.; heating equipment—Brightside Heating and Engineering Co., Ltd., Liverpool, 8. Work commencing March.

**Knottingley, Yorks.**—Erection of a pavilion and public conveniences in the Knottingley playing fields, for U.D.C. G. J. Laverick, engineer and surveyor: R. H. Fullwood, 2 Doncaster Road, South Elmsall, near Pontefract, £2,075. Work commencing March 1.

**Lambeth.**—Erection of a four-storey factory building and alterations to existing adjoining premises at Lambeth Street, London, E.1, for Metropolis Press, Ltd. Plans provide for reinforced concrete frame construction with curtain walling, a ground floor of suspended construction and foundations consisting of ground beams on a system of piles. The main structure will be about 135ft. by 30ft. and 44ft. to parapet. Desmond Burniston, architect, 12 Bolton Street, London, W.1. Leonard and Grant,



consultants, 171 Victoria Street, S.W.1: Martin Cowley, Ltd., 112 Jermyn Street, S.W.1. Estimated cost £80,000.

**Leeds.**—Following works, for City Council: Erection of one block of eight and one block of nine brick-built garages at Cranmer Close, Moortown, and one block of four brick-built garages at South Parkway—George Monkman and Son, Ltd., Nowell Lane, Leeds, 9, £3,646; erection of one block of six and one block of 10 brick-built garages on the Cardinal Crescent estate—H. Johnson and Sons (Farsley), Ltd., New Street, Farsley, Pudsey, £2,247; 24 concrete garages in four blocks at Chetwynd Street, Jack Lane—Marley Concrete, Ltd., Sevenoaks, Kent, £2,576.

Alterations and additions to Ireland Wood police station—George Monkman and Son, Ltd., £7,180; reroofing of machine shop at Kirkstall Road works—Wm. Airey and Son (Leeds), Ltd., Eldon House, Leeds, 2, £5,434 (all recommended).

**Liverpool.**—Following works, for City Council: Redecoration at rates office in Municipal Buildings: William Moss and Sons, Ltd., 4 Roscoe Street, Liverpool, 1, £1,850; repairs, decorations and provision of bathroom and domestic hot water supply, etc., at 93a Sandy Lane—G. N. Rowlands (Contractors), Ltd., 495 Rice Lane, Liverpool, 9, £623; repairs, decorations and conversion of 37 Canning Street, into three self-contained flats—A. and E. Hindley Bros., 2 Grange Street, Rocky Lane, Liverpool, 6, £2,100; repairs, decorations and provision of bathroom and hot water supply, etc., at 24 Sir Howard Street—S. Hayes, 5 Peel Place, Liverpool, 8, £548; erection of nursery accommodation at Sandfield Park School—Frederick Clark and Sons, Ltd., 191 Heywood Street, Liverpool, 5, £7,794 (all recommended).

**Manchester.**—Following works, for City Council: Erection of Victoria Park Secondary School—G. and J. Seddon, Ltd., Little Hulton, sub-contractors—aspalting—Neuchatel Asphalte Contracting, Ltd., Salford; lightweight roofing—Cawood Wharton and Co., Ltd., Harrogate; flat roofing—D. Anderson and Son, Ltd., Stretford; adaptation of kitchen at Broome House—J. Shaw and Sons (Knutsford), Ltd., Bexton Lane, Knutsford, sub-contractors—aspalting—James Rush, Manchester; plasterer—Hatton and Co., Moberley; painter—R. Barrow, Knutsford.

Sub-contracts for extension to eight-form entry at Plant Hill Secondary School—glazing work—Faulkner Greene and Co., Ltd., 16 Marshalsea Road, London, S.E.1; wall and floor tiling—Manchester Wall and Flooring Co., 309 Trafford Road, Manchester, 17.

Erection of superstructure of control and administration building for the Arnfield treatment plant at Longdendale—Simon Carves, Ltd., Stockport.

Erection of an old people's home at Newall View, Wythenshawe—G. and J. Seddon, Ltd., Little Hulton.

**Middlesbrough, Yorks.**—Erection of warehouses, offices, etc., for Middleton and Co., Ltd., J. C. Lawrence and Partners, architects, Post Office Buildings, 26 Brown Street, Manchester, 2; Charles Tennet and Co., Church Road, Stockton-on-Tees.

**Morpeth, Northumb.**—Construction of new Council chamber in Dacre Street, for R.D.C. J. R. Miles, surveyor: Ashington Industrial Co-operative Society (Building Department), Ashington, £6,499.

**Northallerton, Yorks.**—Erection of petrol filling station at Romanby: Walter Thompson, Ltd., North End, Northallerton.

**Norwich.**—Construction of five garages and an open car park at St. Mildred's Road, Earlham (West) housing estate, for City Council: Ford and Carter, Ltd., Baltic House, Mountergate, Norwich (recommended, extension of contract), estimated cost £950.

**Nottingham.**—Alterations and extensions to E.N.T. department in Rowewalk Block, at General Hospital, for Sheffield Regional Hospital Board: William Woodsend, Ltd., Castle Boulevard, Nottingham, £3,242 (recommended).

**Peterborough.**—Erection of block of shops at Gunthorpe housing estate, for City Council: I. Bentley, 21 High Street, Eve, £16,689 (recommended, subject to Ministry approval).

**Romford, Essex.**—Erection of a social hall in Tweed Way, Rise Park, for B.C.: Sellick Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Cornwall, £14,903 (recommended).

**Rotherham, Yorks.**—Builders' work for central heating blocks A, B and part E at Moorgate General Hospital, for Sheffield Regional Hospital Board: A. Cooper and Sons, Ltd., Rotherham, £4,465 (recommended).

**Sheffield.**—Following, for City Council: Erection of hose tower at Fire Station 5, Elm Lane—Direct Labour, estimated cost £3,600; erection of Hinde House Secondary School for Girls—J. W. Sivil, Ltd., 39 Canterbury Avenue, Sheffield, 10, £198,162; alterations and improvements at All Saints' School—B. Powell and Son, Ltd., 37 Cavendish Street, Sheffield, 3, £19,142; repair and improvements at Northwood Cottage, Synnove estate, and Thryft House Farm, off Ringinglow Road—Direct Labour, estimated cost £720 and £1,246, respectively; improvements at Priest Hill Farm, Whiteley Woods, and Chase Farm, Loxley—Wilson and Middleton, 101 Leigh Street, Sheffield, 9, £1,340, and S. L. Clark, Ltd., 400 Sandgate Road, Sheffield, 10, £830, respectively; refooring of the Orchard Place Maternity and Child Welfare Centre—Letco Floors and Tiles, Ltd., Crowtree Works, Broomhall Street, Sheffield, 3, £2,674; partial demolition of caretaker's house at Johnson Memorial Home and adaptation of ground floor to provide additional garage accommodation—Direct Labour, estimated cost £1,000; repairs, etc., 18-28 (even), 1-3 (consecutive) in Court 6, and 1-3 (consecutive) in Court 8, Talbot Road—E. Close, Ltd., 1 Stalker Place, Sheffield, 11, £1,533; 36, 38 and 40, and 1, 2 and 3 in Court 4, Surbiton Street—Ackroyd and Abbott, Ltd., 47 Willoughby Street, Sheffield, 4, £1,269 (all recommended).

**Shirley, Surrey.**—Erection and rebuilding works, including workshops an assembly hall, gymnasium, speech and physiotherapy departments, etc., at Coombe Farm, Oaks Road, for National Spastics Association Centre. D. M. Evans, architect, 5 Buckingham Place, Westminster, S.W.1: J. and C. Bowyer, Ltd., Haynes Lane, London, S.E.19, £41,431. Work to start shortly.

**Smethwick, Staffs.**—Conversion of the toilet adjacent to the main entrance of the original building at Hill Crest into a superintendent's office and the redecoration of the hall, staircase, landings and 19 rooms, for B.C.: A Seers and Sons, Ltd., 164 Broad Street, Birmingham, 15, £569 (recommended).

**South Tipperary.**—Erection of a hall, including a library, museum, assembly hall and U.D.C. offices, for C.C.: Hogan Bros., Croke Street, Thurles, £39,000.

**Stepney.**—Erection of a home for the aged at Exmouth Street, for L.C.C.: O. Hammond and Miles, Ltd., Ilford, Essex, £85,283; Griggs and Son, Ltd., £86,928; C. P. Roberts and Co., Ltd., £87,255; F. R. Hipperson and Son, Ltd., £88,205; J. M. Hill and Sons, Ltd., £88,350; Rowley Bros., Ltd., £89,786; A. Webb (Builders), Ltd., £90,020; Leslie and Co., Ltd., £91,624; Killby and Gayford, Ltd., £92,243.

**Stockport, Ches.**—(a) Erection and (b) design and supply of steel reinforcement for Newlands old people's home, for B.C.: E. E. Coleman, Ltd., Waverley Road Works, Sale, £63,972, and Truscon, Ltd., Seymour Grove, Manchester, 16, £837, respectively (recommended).

**Swindon, Wilts.**—Construction of toilets at Coate Water, for B.C.: Clark Bros., Oxford Road, Swindon, £6,038 (recommended).

**Tynemouth, Northumb.**—Office block, canteen, etc., at new terminal, for the Esso Petroleum Co., Ltd. Cruickshanks and Seward, architects, 196 Deansgate, Manchester: Hastie D. Burton, Ltd., King Street, North Shields.

**Wallasey, Ches.**—Erection of the following, for B.C.: (a) Sports pavilion at Wallasey recreation ground and one terrace of three houses and one detached house on sites in the immediate vicinity; (b) police sub-station, first-aid post, lost children's shelter and public shelters, Wallasey Beach. W. P. Clayton, borough architect: (a) James Tomkinson and Co., Ltd., 22 Roscommon Street, Liverpool, 5, and (b) Bird and Harrop, 4 Dacre Street, Birkenhead.

**Wandsworth.**—Erection of a primary school at Albert Drive and Princes Way, near Wimbledon Parkside, for L.C.C.: Halse and Sons, Ltd., 5 Chapel Hill, London, S.E.18, £51,982 (accepted); Rice and Son, Ltd., £52,276; Token Construction Co., Ltd., £52,422; Kirk and Kirk, Ltd., £52,529; Thomas and Edge, Ltd., £52,610; W. J. Simms, Sons and Cooke, Ltd., £53,264; Rowley Bros., Ltd., £55,450; Bernard Sunley and Sons, Ltd., £56,814.

**Weymouth, Dorset.**—Provision of beach chalets at the Sluice Gardens, for B.C.: W. G. Taylor and Sons, Boot Hill, Weymouth, £14,945 (recommended).

**Whitton, Middx.**—Erection of a hall with nine houses and eight garages at Nelson Road, for Lawrence Masters, 33 Ryecroft Avenue, Whitton: Paul Lawrence and Son, Ltd., 270-276 Bath Road, Hounslow, £19,300. Work to commence in March.

**Wolverhampton, Staffs.**—Supply and erection of timber superstructure of greenhouse at Bushbury Crematorium, and terrazzo work at Whitmore Street public conveniences—Direct Labour, £741, and Phillip Ceconi and Son, 80 Ryland Road, Calthorpe, Birmingham, 15, £741, respectively (recommended).

**Woolwich.**—Construction of the foundations and superstructure of 18 unit factories at Woolwich industrial estate, for L.C.C.: Bernard Sunley and Sons, Ltd., 25 Berkeley Square, London, W.1, £134,562 (accepted); Rice and Son, Ltd., £135,159; Leslie and Co., Ltd., £139,149; The Unit Construction Co., Ltd., £139,150; Thomas and Edge, Ltd., £141,547; W. J. Marston and Son, Ltd., £146,933; Richard Costain, Ltd., £150,265; Ford and Walton, Ltd., £151,420; The Demolition and Construction Co., Ltd., £156,423.

**Worcester.**—Erection of the first instalment of the new teachers' training college, for City Council: Spicers (Builders), Ltd., Ombersley Road, Worcester, £384,676 (recommended, subject to M.E. approval).

**Workop, Notts.**—Pathology laboratory and out-patients' department at Victoria Hospital, for Sheffield Regional Hospital Board: J. E. Smith, Ltd., Kilton Road, Workop, £22,502 (recommended).

#### CLOTHING AND TEXTILES

**Hereford.**—Supply of workmen's overalls, for City Council: John Manning and Son, Eign Street, Hereford, £770 (recommended).

**Leeds.**—Supply of 1,000 khaki uniform drill tunics for drivers and conductors, for City Council: Castlemere Manufacturing Co., Ltd., 325 City Road, Manchester, 15, £843 (recommended).

**Swindon, Wilts.**—Supply of uniforms (transport department), for B.C.: Briggs, Jones and Gibson, Ltd., Newcastle-under-Lyme, Staffs., £994 (recommended).

#### DEMOLITION

**Barrow-in-Furness, Lancs.**—Demolition of the existing Non-Conformist chapel at the cemetery, for B.C.: Direct Labour (recommended, subject to Ministry approval). Estimated cost £1,000.

**Cheltenham, Glos.**—Demolition of chimney at Arle Road depot, for B.C.: V. G. Morris, Ltd., £266 (recommended).

**Downham Market, Norfolk.**—Demolition of cottages at Bennett Street, for U.D.C.: E. W. Bates, £25 (accepted, subject to Ministry approval); P. J. Boughen, £50; W. Monsey, £30; Warren Bros., £60; J. H. Cross and Son, £105; S. G. and C. Quarries, £125; K. B. Hinson, £200; A. King, £300.

**Peterborough.**—Demolition of properties in Westwood Street, for City Council: R. Mease, £460 (recommended, subject to Ministry approval).

**Sheffield.**—Demolition of following, for City Council: City Training College, Woodville—Direct Labour, £500; former licensed premises known as Havana Hotel, Meadow Street—Sheffield and Rotherham Dismantling Co., 114 Abbeyfield Road, Sheffield, 4, £70 (both recommended).

**Sowerby Bridge, Yorks.**—Demolition of a chapel at Sowerby Bridge Cemetery, for U.D.C.: Keith Robson, engineer and surveyor: N. Fearnley, 36 Moorclose Avenue, Queensbury, Bradford, £300.

**Stockport, Ches.**—Demolition of air raid shelter at Fernley Road, for B.C.: Seaton and Bailey, Ltd., £42 (recommended).

**Stoke-on-Trent, Staffs.**—Demolition of Sheridan Works, Longton, and licensed premises, Market Inn, Butterfield Place, Tunstall, for City Council: G. Baskerville, Martin Street, Cobridge, Stoke-on-Trent, £700 and £54, respectively (recommended).

**Swindon, Wilts.**—Demolition of two cottages at Church Farm, for B.C.: N. J. Francombe and Son, £85 (recommended).

**West Bromwich, Staffs.**—Demolition of air-raid shelters 246 and 250, rear of 185, Walsall Street, for B.C.: J. Chapman, 195 Belgrave Road, Birmingham, 19, £90.

#### ELECTRICAL

**Cheltenham, Glos.**—Installation of traffic signals at Gloucester Road/High Street/Townsend Street, for B.C.: S.G.E. Signals, £1,278 (recommended).

**Durham.**—Electrical installation at new branch library, for Co. E.C.: F. E. White, West Cornforth, £1,844.

**Felling, Dur.**—Electrical installation at Leam Lane New Modern School, for Co. E.C.: T. Mitchelson (Electrical), Ltd., Gateshead, £6,835.

**Fencehouses, Dur.**—Electrical installation for additions to Shiny Row County and Modern Schools, for Co. E.C.: Hodgsons (Houghton-le-Spring), Ltd., Houghton-le-Spring, £742.



**Great Yarmouth, Norfolk.**—Supply of new traffic signals for Feathers Plain, Gorleston, for B.C.: Siemens and General Electric Railway Signal Co., Ltd., East Lane, North Wemley, Middx., £1,322 (recommended).

**Manchester.**—Following works, for City Council: Electrical installation in the control tower and domestic flights wing of new terminal building at Manchester Airport and the new Courts of Law—F. Wall and Co., Ltd., Oldham, and S. H. Heywood and Co., Ltd., Manchester, respectively.

**Newcastle upon Tyne.**—Improvements to the electric lighting at Heaton Grammar and High Schools, for E.C.: Robson and Coleman, Simpson Street, Newcastle, £2,587.

**Sheffield.**—Installation of bed lift in detached block for female patients, at Middlewood Hospital, for Regional Hospital Board: Etchells, Congdon and Muir, Ltd., 25 Mill Street, Manchester, 4, £4,818 (recommended).

**Sheffield, Lincs.**—A.C./D.C. change-over at Raceby Hospital, for Sheffield Regional Hospital Board: Grantham Electric Engineering Co., Ltd., 6 Wharf Road, Grantham, £13,756 (recommended).

**Stockport, Ches.**—Electrical installations at Hollywood Park Primary School, for B.C.: W. Toovey, 41 Church Road, Gatley, Cheadle, £1,851 (recommended).

**Swindon, Wilts.**—Electrical rewiring and lighting improvements at Westcott Secondary and Infants' Schools, for B.C.: Lee, Beesley and Co., Ltd., Twyver Works, Millbrook Street, Gloucester, £2,644 (recommended).

#### FENCING

**Leeds.**—Supply and erection of chain link fencing at Knostrop sewage disposal works, for City Council: Proctor Bros. (Wireworks), Ltd., Monkbridge Mills, Whitehall Road, Leeds, 12, £1,301 (recommended).

**Liverpool.**—Erection of boundary fencing at Cathedral Gardens, for City Council: Supplying and laying of approximately 625 lin. yd. of reconstructed stone plinth and erecting railings—W. Thornton and Sons, Ltd., 38 Wellington Road, Liverpool, 8, £7,100; supply of approximately 625 lin. yd. of wrought-iron railings—Thomas Bowen, Ltd., Bowen Street, Parkfields, Wolverhampton, £3,856.

#### GAS AND WATER SUPPLY

**Consett, Dur.**—Construction of a reservoir with a capacity of 11,000,000,000 gallons on a site five miles west of Consett, for the Sunderland and South Shields Water Co. A. G. McLellan, general manager: John Mowlem and Co., Ltd., 91 Ebury Bridge Road, London, S.W.1. Estimated cost £54m.

**Durham.**—Construction of a two-mile water main from Mosswood to Castleside service reservoir in the Derwent Valley, for the County Water Board: Direct Labour, £133,000.

**East Devon.**—Supply and installation of an electrically powered stand-by pump for Pinhay pumping station, contract P6, for East Devon Water Board: J. A. N. McGeoch, chief engineer: Sulzer Bros. (London), Ltd., Sun Foundry, Dewsbury Road, Leeds, 11, £970.

**Grimsby, Lincs.**—Harbrough scheme, contract H.3, for North East Lincolnshire Water Board, comprising the laying only of approximately 4½ miles of 24in. diameter prestressed concrete pipes and 1½ miles of 18in. diameter asbestos-cement pipes across country approximately 10 miles north-west of Grimsby. Cyril Cooper, engineer and manager: Squire W. Swift, Ltd., Selby, Yorks., £32,151. Work just commenced.

**Hertford.**—Construction of new reservoir and high pressure water main, for B.C.: Davis Contractors, Ltd., 346-350, Kilburn High Road, London, N.W.6, £61,815 (recommended); Storton Partners, Ltd., £63,282; Biggs, Wall and Co. (Hitchin), Ltd., £65,970; T.H. Contractors, Ltd., £70,600; M. J. Gleeson (Contractors), Ltd., £71,136; Gee, Walker and Slater, Ltd., £71,994; Howard Farrow, Ltd., £82,772; Gabriel (Contractors), Ltd., £84,717.

**Leamington Spa, War.**—First part of the works for conversion of the boiler house at Campion Terrace pumping station and installation of new filters and pumps, for B.C.: Martin Peyton and Co., Ltd., 9 Newborough Road, Shirley, Birmingham, £6,878 (recommended).

**Leeds.**—Following works, for City Council: Supply of automatic booster pumping plant for multi-storey flats at Ebor Gardens—Worthington-Simpson, Ltd., 39 Otley Road, Leeds, 6, £1,643.

Sub-contractors for filtration works and pumping station at Eccup, for City

Council: steel partitioning—Sankey-Sheldon, Ltd., 48 Wellington Street, Leeds, 1, £683; steel windows—Henry Hope and Sons, Ltd., Provincial House, Albion Street, Leeds, 1, £2,639; multiple covers—Broads Manufacturing Co., Ltd., Torre Road, Leeds, 9 (all recommended).

**Liverpool.**—Supply of valves for construction of works at Huntington and the aqueduct from Huntington to Norton water tower, for City Council: J. Blakeborough and Sons, Ltd., Brighouse, Yorks., £35,366, and Guest and Chimes, Ltd., Rotherham, £1,517 (recommended).

**Loughborough, Leics.**—Laying of 300 lin. yd. of 9in. sludge main, 1,500 lin. yd. of 4in. water main and 2,200 lin. yd. of 3in. water main and the carrying out of incidental works, for B.C.: T. E. Steed, Edwinstowe, Mansfield, £2,640 (recommended).

**Newark, Notts.**—Water main extensions at Station Road and Cottage Lane, Collingham, and New Lane, Gorton, for R.D.C.: Direct Labour.

**Newtown and Llanidloes, Monts.**—Clatter and Pontdolgoch water supply scheme, for R.D.C., comprising the laying of approximately 6,550yd. of asbestos-cement and 50yd. of spun-iron water mains, 3in. diameter, with specials and fittings, together with the construction in mass concrete of a second compartment to an existing reservoir to provide additional storage capacity of 15,000 gallons. W. Herbert Bateman and Partners, consulting engineers, Chesterfield House, Bathaston, Bath, Som.: Buttington Road Rolling Co., Ltd., Min-y-Nant, Trewern, Welshpool, £13,657. Work to commence April 1.

**Swindon, Wilts.**—Supply and erection of submersible pumping plant for 4 borehole at Latton Waterworks, for B.C.: Sulzer Bros. (London), Ltd., 31 Bedford Square, London, W.C.1, £7,974 (recommended).

#### HEATING AND VENTILATING

**Chadderton, Lanes.**—Extensions to the heating systems at the Town Hall and health office and the installation of oil-fired boilers, for U.D.C. F. W. Pexton, engineer and surveyor: Harry Taylor, Ebenezer Street, Ashton-under-Lyne. Work commencing June.

**Leeds.**—Central heating and domestic hot water supply installations at Ireland Wood police station, for City Council: G. Pearson and Co. (Steam Fitters), Ltd., 30 Carlton Street, Leeds, 2, £808 (recommended).

**Leeds.**—(a) Heating, h.w.s., steam and condense, gas, piped medical gas and ventilations, and/or (b) electrical installation at the Thoracic Centre, Killingbeck Hospital, York Road, for the Leeds Regional Hospital Board. Ernest Griffiths and Son, consultant engineers, Kinders, Bromborough, Ches.: (a) The Modern Heating Co. (Button), Ltd., New Lane, Meadow Lane, Leeds, 11, £18,062; (b) Francis L. Bampton, Ltd., Kelvin Works, Ducie Street, Manchester, 1, £8,007.

**Liverpool.**—Supply and installation of oil firing equipment to boiler at Burroughs Garden Baths, for City Council: Hamworthy Engineering, Ltd., Poole, Dorset, £2,855 (recommended).

**Mansfield, Notts.**—Central heating, hot water services and replacement of gas boilers at Forest Hospital, for Sheffield Regional Hospital Board: Partridge Davis and Co., Ltd., Langwith Junction, Mansfield, £14,431 (recommended).

**Mexborough, Yorks.**—Alterations to boiler plant and services at Montagu Hospital, for Sheffield Regional Hospital Board: G. W. Dawes and Sons, Ltd., Sheffield, £2,589 (recommended).

**Nelson, Lanes.**—Provision and erection of a heating and ventilating unit and ancillary equipment at works department in Charles Street, for B.C.: Wanson Co., Ltd., £1,305 (recommended).

**Stockport, Ches.**—Heating installations at Taxal Lodge School extensions, for B.C.: J. H. Hicks and Co., Ltd., Richard Street, Stockport, £687 (recommended).

**Swindon, Wilts.**—Supply and installation of a boiler at the Commonweal Grammar School, for B.C.: North Wilts. Sanitary and Heating Co., Ltd., Newport Street, Swindon, £550 (recommended).

**Wolverhampton, Staffs.**—Hot and cold water installation to houses in the Vauxhalls redevelopment area, for B.C.: D. Wiseman and Bros., Ltd., Showell Road, Wolverhampton, £10,569 (recommended).

#### HOUSING SCHEMES

**Barrow-in-Furness, Lanes.**—Construction of two gas and two electrically heated houses at Redwater Gardens, for B.C.: Direct Labour, £7,917 (recommended).

**Cumbernauld, Lanarks.**—One hundred and forty-six terrace houses and 102 garages in the northern section of the town, for B.C.: Atholl Houses, Ltd., 29 Park Circus, Glasgow, C.3. Estimated cost £260,000.

**Dorchester, Dorset.**—Following works, for U.D.C.: J. Owen Bond and Son, architects, St. Faith's House, Mountgate, Norwich: 28 houses at Paradise Road—J. H. Cross and Son, Hempfields, Littleport, Ely, Cambs., £43,967 (accepted, subject to Ministry approval); O. Staines and Son, £45,841; A. King, £47,317; Warren Bros., £48,254.

Three bungalows at Bennett Street—J. H. Cross and Son, £3,814 (accepted, subject to Ministry approval); Barker Bros., £3,730; P. J. Boughen, £3,864; A. King, £3,973; Warren Bros., £4,226.

**Durham.**—Twenty houses at Leamside, for R.D.C.: J. F. Willis, housing architect, Byland Lodge: Direct Labour, £28,836.

**Felling, Dur.**—Twelve bungalows in Falla Park Road, for U.D.C.: R. Morton, surveyors: Direct Labour, £15,384.

**Hartlepool, Dur.**—Fifty houses north of King Osby Drive, for B.C.: Direct Labour.

**Hereford.**—One hundred and three two-storey traditional houses and 88 garages at Redhill estate, for City Council: Selleck Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Corn., £167,937 (recommended, subject to Ministry approval).

**Houghton-le-Spring, Dur.**—Thirty-six houses on Burnside estate, 12 flats at Chandlers Row, and 12 flats at Fatherley Terrace, for U.D.C.: A. Veitch, surveyor: Direct Labour (subject to Ministry approval).

**Leeds.**—Following works, for City Council: 201 new traditional dwellings at Ebor Gardens, stage II—Reema (Chesterfield), Ltd., Storforth Lane, Chesterfield, Derbs., £351,470; 42 dwellings on the Swinnow estate, and 46 on the Moor Grange estate—N. B. Bell and Co., Ltd., Frankland Terrace, Leeds, 7, £110,384 (recommended, subject to Ministry approval).

Eighty-five dwellings on land off Stonegate Road as second part of stage II of the Queenshill housing scheme, for the Leeds Jewish Housing Association—N. B. Bell and Co., Ltd. Estimated cost £131,264.

**Liverpool.**—Following works, for City Council: Six flats at junction of Muirhead Avenue and Culme Road—R. J. Barton and Sons, Ltd., Altcar Road, Formby, £10,047; four houses at Runton Road, Lee Park estate—W. L. Murphy and Co., Ltd., 3 Kirkstone Road North, Litherland, Liverpool, 21, £11,765 (recommended, subject to Ministry approval).

Conversion of 168 Chatham Street, into three self-contained flats and sundry repairs and decorations—S. Hill and Co., Ltd., Bennison Drive, Liverpool, 19, £1,675 (recommended).

**Loughborough, Leics.**—Thirty flats at Pinfold Street, contract 78, for B.C.: C. W. and A. L. Hughes, 102 Baggrave Street, Leicester, £43,617 (recommended).

**Luton, Beds.**—One hundred and fifty-eight houses, 12 old people's dwellings and 146 garages at Lewsey estate, for B.C.: Drury and Co., Ltd., The Grange, Wigston Fields, Leicester, £284,949 (subject to Ministry approval).

**Newbury, Berks.**—Conversion of five cottages to form four dwellings with installation of bathroom, hot water and drainage at 27-35 Station Road, Thatcham, for R.D.C.: Brown and Cleverley, Flat Tops, Ashmore Green, Newbury, £2,734.

**Norwich.**—Twelve one-bedroom flats at Watling Road, Heartsease estate, for City Council: Ford and Carter, Ltd., Baltic House, Mountgate, Norwich, £17,415 (recommended).

**Peterborough.**—Sixteen flats and 18 houses at Gunthorpe East and four flats at Keeton Road site, for City Council: S. B. Fairchild and Sons, Ltd., 11 Welland Road, Peterborough, £36,574, and N. J. H. Overton, 13 Sheridan Road, Peterborough, £5,131, respectively (recommended, subject to Ministry approval).

**Poplar.**—Construction of foundations to block I at Arcadia Street site, for L.C.C.: Wilson Lovatt and Sons, Ltd., 16 Grosvenor Crescent, London, S.W.1, £11,926.

**Romford, Essex.**—Twelve flats in three two-storey blocks at White Hart Lane, for B.C.: S. R. Bryett, Ltd., Grays Farm, Church Elm Lane, Dagenham, £21,555 (recommended).

**Sunderland, Dur.**—Fourteen old people's bungalows at The Oval, for B.C.: T. Stewart, Peacock Street West, Sunderland, £27,800.

**Welwyn Garden City, Herts.**—Twenty-five bungalows, 179 houses, and 20 maisonnettes, for Development Corporation. James and Bywaters, architects, 5 Bloomsbury Street,

London, W.C.1: Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £375,645.  
**West Bromwich, Staffs.**—Sixty-four dwellings and 35 garages at Yew Tree estate, for B.C.: Nathan Hyde, 6 Claremont Road, Sedgley, £85,326 (recommended).

#### MATERIALS AND SUPPLIES

**Halesowen, Worcs.**—Supply of 800 dustbins, specification B.S.S. 792/1947, for B.C.: T. Hill (Successors), Engine Lane, Lye, Stourbridge, 25s. (plus 3s. 7½d. purchase tax) each (recommended).  
**Luton, Beds.**—Supply of 440 time switches, for B.C.: Venner, Ltd., Kingston By-pass, New Malden, Surrey, £1,701.  
**Stockport, Ches.**—Supply of 310 faience fireplaces for Brinnington neighbourhood unit, contracts 46, 47, 48a and b, for B.C.: Shaw's Glazed Brick Co., Ltd., Whitebirk Works, Waterside, Darwen, Lancs., £7 15s. each (recommended).

#### MISCELLANEOUS

**Leeds.**—Supply of plastic press cloths for Knostrop sewage disposal works, for City Council: G. H. Heath and Son (1952), Ltd., Pickford Street Mills, Macclesfield, £4,654 (recommended).

#### PLANT AND MECHANICAL TRANSPORT

**Castlereagh, Down.**—Supply and delivery of one 25 cu. yd. capacity dual tip refuse collector, fitted with a (a) suitable mechanical arrangement for handling bins of 1½ cu. yd. capacity; (b) ventilated double cab, providing accommodation for six loaders, for R.D.C.: A. S. Baird, Ltd., Ormeau Avenue, Belfast, £3,300 (accepted); Shelvoke and Drewery, Ltd., £3,480.  
**Chippenham, Wilts.**—Supply of portable air compressor and tools, for B.C.: Atlas Copco (G.B.), Ltd., 47a Zetland Road, Bristol, 6 (recommended). Estimated cost £1,291.  
**Salford, Lancs.**—Supply of a B.M.C. 30cwt. lorry with diesel engine and tipping body, for City Council: Lookers, Ltd., Manchester, £894 (recommended).  
**Sheffield.**—Supply of following, for City Council: One diesel engine G.A. type 1½ tons roller with certain extra equipment—

Aveling-Barford, Ltd., Grantham, Lincs., £984; one Allen K.52 truck-mounted crane/excavator with certain extra equipment—John Allen and Sons (Oxford), Ltd., Cowley, Oxford, £6,446 (recommended).

**Smethwick, Staffs.**—Supply of a Morris J.2 15cwt. van, including painting and lettering, for B.C.: E. E. Brown and Co. (Smethwick), Ltd., Empire Garage, St. Pauls Road, Smethwick, £514 (recommended).

**Stoke-on-Trent, Staffs.**—Supply of four Dennis Tippax refuse collection vehicles, for City Council: Dennis Bros., Ltd., Guildford, £2,495 each (recommended).

**Swindon, Wilts.**—Supply of the following, for B.C.: One three cu. yd. dumper—E. Boydell and Co., Ltd., Elsinore Road, Old Trafford, Manchester, £1,395 (recommended).

One ½ cu. yd. dumper and one tractor loading shovel—Plant Repairs (Bristol), Ltd., Fox Road, Bristol, 2 (recommended). Estimated cost £390 and £1,800, respectively.

**Wolverhampton, Staffs.**—Supply of a mechanical road sweeper and a Commer 3-ton van, for B.C.: Lewin Road Sweepers, Ltd., Victoria Works, Hill Top, West Bromwich, £2,875, and Wolverhampton Motor Services, Ltd., Cleveland Road, Wolverhampton, £360, respectively (recommended).

#### PLAYING FIELDS, PARKS, ETC.

**Accrington, Lancs.**—Provision of three tennis courts at Peel Park, for B.C.: Clapham's Nurseries, Ltd., Bramhall, £2,452 (recommended).

**Barrow-in-Furness, Lancs.**—Development of the Duke Street-Fisher Street site as a playground for the Alfred Barrow County Secondary Schools, for B.C.: Direct Labour (recommended). Estimated cost £3,983.

**Bristol.**—Grading and adaptation of land at the Malago Valley (second section) for use as football pitches and clearing and regrading of land at the Trym Valley, Southhead, between Trowbridge Road and Shetland Road, for City Council: Direct Labour (recommended). Estimated cost £750 and £1,400, respectively.

**Lewisham.**—Laying out of gardens to blocks 1-4 at Derby Hill estate, for L.C.C.:

Knowles and Weller, Ltd., Croydon, Surrey, £3,172.

**Poplar.**—Laying out of gardens to blocks 1-4, 6, 11, 13-14, 16 and 18-21 at Alton Street site, for L.C.C.: St. Mary's (Contractors), Ltd., 273 Sussex Way, London, N.19, £2,718.

**Salford, Lancs.**—Construction of a garden layout at corner of Whit Lane and Broughton Road, for City Council: W. Gornall and Sons, Ltd., Salford, £896 (recommended).

**Woolwich.**—Laying out of gardens to blocks 1-15 at Kingsdale estate, for L.C.C.: A. Stevens, Senr., Woodford Wells, Essex, £15,518.

#### RAILWAY ENGINEERING

**British Railways.**—Following contracts placed: Eastern Region:

Supply and installation of one 33-kV ring main unit at Shadwell—South Wales Switchgear, Ltd., Blackwood, Mon.

Erection of equipment for 25-kV feeder stations and track sectioning cabins for 50-cycle a.c. electrification and supply and installation of earthing equipment, low tension a.c. connections and other miscellaneous small wiring in buildings on the London, Tilbury and Southend Line—Fuller Electric, Ltd., Fulbourne Road, London, E.17.

Construction of troughing, pits, etc., for cable/air main route to signalling at Ripple Lane, Barking—W. and C. French, Ltd., Buckhurst Hill, Essex.

Supply and installation of signalling equipment for remote control of Stepney East and Gas Factory Junction from Fenchurch Street, including automatic train control equipment between Fenchurch Street and Bow Junction—The Siemens and General Electric Railway Signal Co., Ltd., East Lane, Wembley.

Supply and erection of an electrical installation in 2 Carriage Body Shop, Stratford—George E. Taylor and Co. (London), Ltd., 34 Southwark Bridge Road, London, S.E.1.

Supply of eight sets of diesel electric arc-welding equipment—Max-Arc and Electrics, Ltd., Terrace Road, Walton-on-Thames, Surrey.

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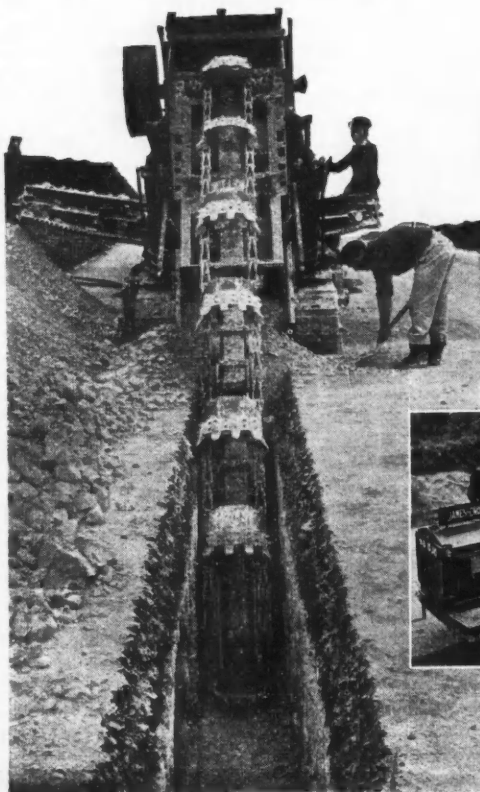


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## ROADS, BRIDGES AND SITE WORKS

- Barrow-in-Furness, Lancs.**—Ground borings on site of the proposed Michaelson Road high level bridge, for B.C.: Mott, Hay and Anderson, consulting engineers, 9 Iddlesleigh House, Caxton Street, Westminster, S.W.1: Cementation Co., Ltd., Bentley, Doncaster, £2,409 (recommended).
- Beverley, Yorks.**—Construction of an extension to Sigston Road and the requisite site works, for B.C.: Direct Labour, £2,900 (recommended, subject to Ministry approval).
- Birmingham.**—Following works, for City Council: Supply, laying and maintaining of asphalt in Boulton Road (part)—Constable, Hart and Co., Ltd., Peartree Lane, Dudley; construction of roads and sewers at Garretts Green estate industrial area—D. B. Evans (Bilston), Ltd., Oxford Street, Bilston; supply of prestressed precast concrete units for inner ring road scheme, section I (part II), Bull Ring—Hoveringham Concrete Co., Ltd., Hoveringham, Bleasby, Nottingham; reconstruction of Redditch Road and Icknield Port Road (part) and supply, laying and maintaining of asphalt in Farm Lane (part)—Road Surfacing Co., Ltd., 68 Hagley Road, Edgbaston, Birmingham, 16; structural works for pedestrian subway, Corporation Street-Bull Street junction—Taylor Woodrow Construction Co., Ltd., London, W.1; laying of thin carpet of asphalt in St. Vincent Street (part) and supply, laying and maintaining of asphalt in Sandon Road (part) and Redditch Road (part)—Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad House, Coventry Street, Birmingham, 5.
- Bletchley, Bucks.**—Laying of approx. 2,300 sq. yd. of 6in. reinforced concrete carriageway, together with kerbs and footways, and various ancillary works, at Station Approach Road, for U.D.C.: J. F. Smithie engineer and surveyor: Daybrook Quarries, Ltd., Morris House, Jermyn Street, London, S.W.1, £9,000. Work commencing April 1.
- Cheltenham, Glos.**—Road and path formation works for extension of the Garden of Remembrance, for B.C.: Grimshaw Kinnear, Ltd., Tewkesbury Road, Cheltenham, £2,608 (recommended).
- Downham Market, Norfolk.**—Construction of road and sewer at Paradise Road (in connection with the erection of 28 houses), for U.D.C.: E. W. Bates, £3,062 (accepted, subject to Ministry approval); J. H. Cross and Son, £3,155; Warren Bros., £3,709; A. King, £3,737.
- East Retford, Notts.**—Making-up of Newton Street and widening and reconstruction of Wellington Street, for B.C.: Herbert Ashley, Sheepbridge, Sheepbridge Lane, Mansfield.
- Esher, Surrey.**—Private street works at Island Farm Avenue, Island Farm Road (part), and Pool Road (part), West Molesley, contract 292, for U.D.C.: W. and J. Glossop, Ltd., 123 East Hill, Wandsworth, London, S.W.18, £12,146.
- Esher, Surrey.**—Omnibus lay-bys, Portsmouth Road, A.3, Esher and Copsen Lane, A.244, Oxshott, contract 293, for U.D.C.: Ebenezer Mears (Contractors), Ltd., Cumberland Works, Chertsey Road, Byfleet, Surrey, £2,137.
- Fermanagh.**—Construction of a new carriageway, approximately 1,620 lin. yd. long on route A.46 from Enniskillen to Belleek in the townlands of Silverhill and Magheradunbar, for C.C.: J. J. Scallan and Sons, Ltd., Irvinestown, £41,760.
- Finchley, Middx.**—Improvements of the junction of North Circular Road and Regents Park Road, for C.C.: Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, London, E.3, £73,895.
- Friern Barnet, Middx.**—Reconstruction and resurfacing of the Woodhouse Road/Summers Lane junction, for U.D.C.: E. H. Start, engineer and surveyor: Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, E.3, £4,416.
- Greenhithe, Kent.**—Repairs to roadway in binding gravel and cold bitumen spraying and gritting running from entrance gate to new bungalows, for Thames Nautical Training College, H.M.S. Worcester: Hodsons, Ltd., 17 Wrotham Road, Gravesend.
- Haslingden, Lancs.**—Resurfacing on Blackburn Road (Pilling Street to Acre garage), for B.C.: Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool, 2 (recommended).
- Hereford.**—Construction of car park in St. Martins Avenue, for City Council: Taylor and Co., Barton Works, Barton Road, Hereford, £2,678 (recommended).
- Houghton-le-Spring, Dur.**—Site preparation works for houses and bungalows on the Burnside estate, for U.D.C.: A. Veitch, surveyor: Direct Labour, £26,952.
- Leeds.**—Following works, for City Council: Private street works—Lancastre Grove (part III) and Primley Park Crescent (part IV)—Thorp of Leeds, Ltd., 52 Gledhow Wood Grove, Leeds, 8, £477 and £797, respectively; Sandhill Grove, Sandhill Mount (part II) and Sandhill Oval (part III)—Hadsphallic Construction Co., Ltd., Dean Avenue, Leeds, 8, £4,295.
- Improvement works—Sunnyview Gardens (part)—Thorp of Leeds, Ltd., £1,955; York Road from Watson Road to Foundry Lane: Fallon (Civil Engineering and Plant Hire), Ltd., Suspension Bridge Works, South Accommodation Road, Leeds, 9, £41,283; Flax Place (excluding surfacing work)—Hadsphallic Construction Co., Ltd., £7,724 (all recommended).**
- Luton, Beds.**—Construction of carriageways and foul and surface water sewers at Lewsey estate, for B.C.: Matthew James and Co., Ltd., £33,351 (subject to Ministry approval).
- Maidstone, Kent.**—Widening of Glebe Lane, for B.C.: P. A. Barden and Sons, Ltd., Weaving House, Ashford Road, Maidstone, £22,227 (recommended).
- Manchester.**—Following, for City Council: Second stage of the main runway extension to 7,000ft., including clearance and improvement work on the flight strip at the south-westerly end of the main runway and the provision of fencing and also of barrier gates and traffic signals for the control of traffic along a length of the Altrincham to Wilmslow Road: Richard Costain, Ltd., Westminster Bridge Road, London, S.E.1, extension of contract: construction of roads and sewers at Rose Hill, Marple, overspill site: North Western Contracting Co., Park Avenue, Manchester, 13.
- Middlesex.**—Duplication of the carriageway on the Barnet By-pass from Mill Hill Golf Course to The Fairway, Hendon, for C.C.: John Laing and Co., Ltd., Mill Hill, N.W.7 (recommended, extension of existing contract). Estimated cost £24,365.
- Nelson, Lancs.**—Tarspraying on various roads, for B.C.: S. Sutcliffe and Son, Ltd., Crags Road Depot, Mytholmroyd (recommended).
- Norwich.**—Construction of roads and layine of sewers at the Hall Road (clearance area) housing site, for City Council: Direct Labour (recommended, subject to Ministry approval).
- Plymouth.**—Making-up of Powisland Drive, for City Council: Direct Labour (recommended). Estimated cost £10,718.
- St. Helens, Lancs.**—Making-up of private streets in the Thatto Heath, Grange Park and Pocket Nook areas, for B.C.: John Finlan, Ltd., Hale Road, Halebank, Widnes.
- Saltsath, Corn.**—Construction of approx. 107 lin. yd. of macadam carriageway, together with kerbing, channelling, drainage, water main and footpaths at Grenfell Avenue, fifth extension, for B.C.: A. De Barr, borough surveyor: W. and J. Glossop, Ltd., Exhibi-



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of asbestos-cement rising main and the construction of a sewage pumping station at Conington, for R.D.C. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester: Crawshaw Robbins and Co., Ltd., Northampton, £6,665 (accepted); D. and H. Contractors (Cambridge), Ltd., £7,893; J. J. Curran, Ltd., £9,088; Joseph Webster, Ltd., £7,625; Kell Harris (Contractors), Ltd., £8,103; Stamford Construction, Ltd., £7,598.

**Leeds.**—Supply of screens and raking equipment for storm water overflow, for City Council: Longwood Engineering Co., Ltd. (recommended). Estimated cost £1,000.

**Lisburn, Antrim.**—Laying of an extension sewer in Duncan's Road, for U.D.C., comprising approximately 200 lin. yd. of 9in. glazed stoneware pipe sewer with four manholes: Henry Young, Alexander Yard, Limestone Road, Belfast, £1,070 (accepted); E. Thompson and Co., £1,143; J. McQuillan, Ltd., £1,198; F. and R. Catney, £1,685; P. J. Walls, £1,775.

**Liverpool.**—Supply and erection of eight circular filter distributors for the South Liverpool sewage disposal works, for City Council: Adams Hydraulics, Ltd., York, £3,198 (recommended).

**Newcastle upon Tyne.**—Sewer works at Church Street, Walker, for City Council: Direct Labour, £3,800 (recommended).

**Penrith, Cumb.**—Sewerage scheme at Skelton, for R.D.C. Waterhouse and Rounthwaite, consulting engineers, 165 Westmorland Road, Newcastle upon Tyne: J. Watson, Newbiggin, Stainton, £18,054.

**Rowley Regis, Staffs.**—Construction of foul sewer from Dudley Road East to Johns Lane, for B.C.: Hagarty Kerrigan and McTigue, 4 Seven Acres, Aldridge, £5,151 (recommended).

**St. Austell, Corn.**—Provision, erection and maintenance of three vertical spindle, unchokeable centrifugal pumps of 1,000 g.p.m. capacity, complete with electric motors, starters, wiring, and ancillary equipment at Mevagissey, for U.D.C. H. G. King, engineer and surveyor: Sigmund Pumps, Ltd., 106 Terminal House, 52 Grosvenor Gardens, S.W.1, £3,780 (subject to Ministry approval).

**Salisbury and Wilton, Wilts.**—Laying of approximately 7½ miles of 6in., 9in. and 12in. diameter sewer in concrete and spun-iron pipes, together with precast concrete manholes, laterals, pumping station, and other incidental works at Downton, stage II, contract 2, for R.D.C. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton: Henry Osman and Co., Ltd., Winchester Road, Southampton, £124,604.

**Sheffield.**—Construction of sewers at the Worrall day premises, near Sheffield, for Regional Hospital Board: J. Childs, Sheffield, £1,244 (recommended).

**Sheffield.**—Reconstruction of certain bio-aeration units at Blackburn Meadow sewage disposal works, for City Council: Direct Labour (recommended). Estimated cost £55,000.

**Sowerby Bridge, Yorks.**—Sowerby New Road relief sewer, for U.D.C. Work provides for approximately 1½ yd. of 30in. diameter concrete sewer; 88yd. of 27in. diameter concrete sewer; 42yd. of 21in. diameter concrete sewer; 400yd. of 18in. diameter concrete sewer; 32yd. of 15in. diameter concrete sewer; 61yd. of 15in. diameter spun-iron sewer; 52yd. of 6in. diameter spun-iron

sewer; 10 manholes; one storm overflow and appurtenant works. Keith Robson, engineer and surveyor: K.J. Construction, Ltd., 47 Butternab Road, Beaumont Park, Huddersfield, £7,925.

**Wilton, Lincs.**—Laying of about 1,480yd. of 9in. diameter pipe sewers, etc., at Saxilby, for R.D.C. Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham: Frank A. Eccleshare, Ltd., Dixon Street, Lincoln, £11,999.

**Wolverhampton, Staffs.**—Construction of a sewage disposal system at Pendeford Hall caravan site, for B.C.: Direct Labour, £2,822 (recommended, in lieu of previous tender).

**Worcester.**—Construction of manholes at St. George's Lane North, Barbourne Road, Hylton Road and Henry Street, for City Council: Flanagan Constructors, Ltd., £838 (recommended).

#### STREET LIGHTING

**Cwmbran, Mon.**—Erection of 42 group A steel street lighting columns, for the Development Corporation: Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham.

**Doncaster, Yorks.**—Road lighting at Western Hospital, for Sheffield Regional Hospital Board: Stewart Maggs, Ltd., 41 Victoria Street, Doncaster, £1,750 (recommended).

**Faversham, Kent.**—Supply and erection of 11 lanterns and fittings for 140-W sodium discharge lamps, together with prestressed concrete columns, brackets and other equipment, at Stone Street, for B.C. A. C. E. Richardson, borough engineer and surveyor: Atlas Lighting, Ltd., Thorn House, Upper St. Martin's Lane, W.C.2, £710 (accepted); General Electric Co., Ltd., £769; Erecon, Ltd., £727; A.E.I. Lamp and Lighting Co., Ltd., £741.

**Hartlepool, Dur.**—Street lighting in the King Oswy Drive extension, for B.C.: Engineering and Lighting Equipment Co., Ltd., Sphere Works, St. Albans, £1,044.

**Hereford.**—Installation of street lighting on section III of Green Lane estate, for City Council: A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £580 (recommended).

**Huntingdon.**—Provision of improved lighting on various roads within the borough, for B.C.: A.E.I. Lamp and Lighting Co., Ltd., London, W.C.2, £4,730 (recommended); Cohen Bros. (Electrical), Ltd., £5,035; Machinery Installations, Ltd., £5,253; Atlas Lighting, Ltd., £5,454; Engineering and Lighting Equipment, Ltd., £5,089; Abacus Engineering, Ltd., £5,713; General Electric Co., Ltd., £5,102.

**Luton, Beds.**—Provision of night lighting for the concrete runway at Luton Airport, for B.C.: C. Maurice Contractors, Ltd., Bishop's Stortford, £33,222 (subject to Ministry approval).

**Maidstone, Kent.**—Erection of 30 group B lanterns in the Park Wood estate area, for B.C.: Siemens Edison Swan, Ltd., 33 Grosvenor Place, London, S.W.1, £1,361 (recommended, subject to Ministry approval).

**Weymouth, Dorset.**—Provision of group A street lighting in Westway Road, North Quay, Boot Hill (part), Rodwell Road, Buxton Road and Portland Road, for B.C.: A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £10,417 (recommended).

#### OPENCAST MINING

**N.C.B.**—Contracts let in connection with opencast coal production during January:

Seymour Disposal Point: canteen improvements and new latrine—Ernest Fletcher.

Cheadle: care and maintenance of disposal point—Robert M. Douglas (Contractors), Ltd.

#### GOVERNMENT CONTRACTS

**Admiralty.**—Particulars of contracts over £1,000 in value placed by Civil Engineer-in-Chief's Department:

Hampshire: construction of store—John Hunt, Ltd., Gosport; conversion of huttid camps—John Hunt, Ltd., Gosport.

Kent: roofing—Neuchatel Asphalte (Contracting), Ltd., Maidstone

**Air Ministry.**—Contracts to the value of £500 or over for the week ended Jan. 29:

Building and maintenance: Waddington, Lincs.—J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham; Leconfield, Yorks.—F. Shepherd and Son, Ltd., Blue Bridge Lane, York; Ely, Cambs.—Coulson and Son, Ltd., 37 St. Andrews Street, Cambridge; Honington, Suffolk—William Sindall, Ltd., 347 Cherryhinton Road, Cambridge; Old Sarum, Wilts.—A. J. Dunning and Sons (Weyhill), Ltd., Weyhill, Andover, Hants; North Luffenham, Oakham, Rutland—J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham; Hendon, London, N.W.9—George Wumpey and Co., Ltd., Hammersmith Grove, London, W.6; Honington, Suffolk—Walter Lawrence and Son, Ltd., Ventnor House, London Street, Swaffham, Norfolk; Wyton, Hunts.—F. R. Hipperson and Son, Ltd., Invicta House, Wantz Road, Dagenham, Essex, A. J. G. Potter and Sons, Ltd., Stanwick, Wellingborough, Northants; Scampton, Lincs.—A. Monk and Co., Ltd., P.O. Box 4, Stamford, Lincs.

Runway works: Martlesham Heath, Suffolk—Road Works (1952), Ltd., 57-61 Commercial Road, Ipswich, Suffolk; London Airport—John Cochrane and Sons, Ltd., Poyle Road, Colnbrook, Bucks.

Artificers' work: Marham, Norfolk—Walter Lawrence and Son, Ltd., Ventnor House, London Street, Swaffham, Norfolk.

Preparation of land for sports field: Harrogate, Yorks.—Maxwell M. Hart (Glasgow), Ltd., Chronicle Buildings, Corporation Street, Manchester, 4.

**Metropolitan Police.**—Recent contracts placed include:

Alterations to canteen, Kingston Police Station—Ransoms (Hook), Ltd., £748.

Internal redecorations, Leyton Police Station—W. T. Ricketts and Sons, Ltd., £1,665.

Internal redecorations, The Grove, Ealing—The Middlesex Paint Craftsmen, £1,298.

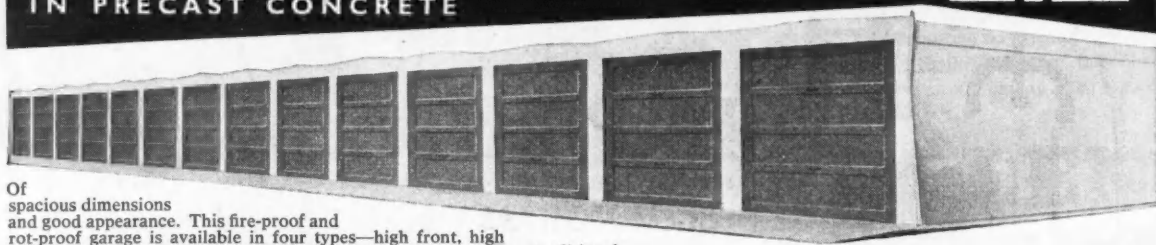
Additional prisoners' accommodation, Bow Street Magistrates' Court—John Hoare and Son, £1,987.

Internal redecorations, Mansfield Heights and Aylmer Road, N.2—J. H. and W. Heal, Ltd., £2,772.

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**Ministry of Finance, Northern Ireland.**—Contracts exceeding £250 in value placed during the period Jan. 18 to Jan. 29, inclusive:

Construction and completion: New Office Building, Omagh—J. A. Gamble, Dock Street, Strabane, Co. Tyrone.

Erection and completion of one forester's and one woodman's cottage: Pomeroy House Forestry Centre, County Tyrone—Benson Bros., Ltd., Killymoon, Cookstown, County Tyrone.

Sinking and lining of a well, etc.: Cattle and Sheep Pens, Killeen—K. and H. O'Hare, The Crescent, Jerretts Pass, Newry.

Internal cleaning and part painting: Commonwealth House, Castle Street, Belfast, 1—G. F. Johnston, Ltd., 70 Clifton Street, Belfast, 13.

Internal and external painting: Chichester House, Chichester Street, Belfast, 1—G. F. Johnston, Ltd., 70 Clifton Street, Belfast, 13.

Internal painting and cleaning, etc.: Head Post Office, Royal Avenue, Belfast, 1—G. F. Johnston, Ltd., 70 Clifton Street, Belfast, 13.

Internal cleaning and painting: R.U.C. Station and Married Quarters, Ballymena—A. Peacock, 29 Market Road, Ballymena.

Plenum heating and ventilating installations: New Petty Sessions Courts, Chichester Street, Belfast, 1—Andrew Air Conditioning Ltd., Mill Street West, Belfast, 13.

Construction of A.T.E. and M.T. Workshop: Telephone Exchange, Ballymena—J. and H. E. Doherty, Ltd., Bushmills Road, Coleraine.

**Ministry of Works.**—Contracts placed for week ended Jan. 22:

Aberdeenshire: Constitution Street, Peterhead—alterations—James Scott and Son, Ltd., 483-5 Union Street, Aberdeen.

Hertfordshire: Telephone Exchange, Bishop's Stortford—erection—Thomas Bates and Son, Ltd., The Old Brickworks, Harold Wood, Romford, Essex.

Lanarkshire: 13, 14, 15 Crown Terrace, Downhill—installation—Underhill Heating Engineers, Ltd., 1324 Dumbarton Road, Glasgow, W.4; State Mental Hospital and State Institution, Carstairs—erection—J. Wight and Co. (Edinburgh), Earls Gate Works, Grangemouth.

Lancashire: Post Office Central Repair Workshops, Collins Road, Bamber Bridge—internal and external painting—Arthur Pugh and Co., 236 Bolton Road, Salford, 6; Wayfarers Hostel (National Assistance Board), Walkden: alterations and adaptations—James Cocker (Contractors), Ltd., Station

Sawmills, Walkden; Ministry of Pensions and National Insurance, Scalefield Mill, Nelson—renewal of roof—Furness and Co., Queen's Mill Road, Little Royd, Huddersfield, Yorks.

London: General Post Office, King Edward Building, E.C.1—renewal of lift 8—Sykes and Son, Ltd., 8 Essex Street, Strand, W.C.2; Custom House, E.C.3—change over from d.c. to a.c.—L. J. Palmer of London, Ltd., Baring Works, S.E.12; H.M. Land Registry, Lincolns Inn Fields, W.C.2—reinstatement of war-damaged forecourt paving, etc.—Richard Maddern, Ltd., 15 The Viaduct, Sherwood Road, South Harrow, Middx.

Warwickshire: Post Office Supplies Depot, Fordrough Lane, Birmingham—renewal—Phillip Cecconi and Son, Ltd., 81-82 Ryland Road, Edgbaston, Birmingham.

Yorkshire: National Milk Testing Service, New Market Street, Skipton—new laboratories—Harry Turner and Son (Gargrave), Ltd., Belmont Bridge, Skipton.

**Post Office.**—Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended Jan. 30.

The Baillie Contracting Co., Ltd., 2061 Coventry Road, Sheldon, Birmingham, 26; A. H. Ball and Co., Ltd., Tilford Road, Farnham, Surrey; J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey; Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; James Cooper (Construction), Ltd., 28 Kensington Church Street, London, W.8; J. A. Crawford, 3 Belle View Park, Sunderland, Co. Durham; P. Cusack and Co., 52 Parkside Way, North Harrow, Middx.; The Edge Construction Co., Ltd., English Damside, Carlisle, Cumberland; W. and C. French, Ltd., 50 Epping New Road, Buckhurst Hill, Essex; A. F. Hastings and Co. (N.I.), Ltd., 7 Ballyregan Road, Dundonald, Belfast.

Northern Ireland: Henry Hemmings, Ltd., 129 Brigstock Road, Thornton Heath, Surrey; P. Lowery and Sons, Ltd., Sussex Road, Southall, Middx.; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook Nottingham; Robert Paterson and Sons, Ltd., Milton Street, Airdrie Lanarks.; John T. Pickard (Harrogate), Ltd., 168 Skipton Road, Harrogate, Yorks.; Stanley Raymond and Co., Ltd., Sussex Road, Southall, Middx.; Regan and Almond, Ltd., 30 Sutton Road, Heaton-Norris, Stockport,

Ches.; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

**War Department.**—Contracts placed for the week ended Jan. 22:

Brecknockshire (Sennybridge): roadwork—W. and J. Glossop, Ltd., Bridgend.

Cumberland (Carlisle): building—James Millar and Sons, Carlisle.

Derbyshire (Foston): re-sheeting—Maurice Hill, Ltd., Horndean.

Essex (Colchester): painting and decorating—Decorative Painting Contractors, Ltd., Hounslow; building—Joseph Moss and Sons, Ltd., Colchester; (Shoeburyness): building—J. C. Flaxman and Sons, Ltd., Southend-on-Sea.

Flintshire (Kinnel Park): painting and decorating—T. H. Kenyon and Sons, Ltd., London, W.9.

Hampshire (Aldershot): painting—Decorative Painting Contractors, Ltd., Hounslow. Kent (Gravesend): roadwork—W. H. Bensted Contractors, Ltd., Maidstone.

Lanarkshire (Glasgow): heating—C. F. Howden, Ltd., Glasgow.

Shropshire (Shrewsbury): building—M. A. Boswell (Contractors), Ltd., Wolverhampton; (Donnington): electric—Frances Electric, Ltd., Wednesbury.

Surrey (Bisley): building—E. J. Logan (Putney), Ltd., Putney.

Contracts placed for the week ended Jan. 29:

Berkshire (Windsor): building—Kirk and Kirk, Ltd., London, S.W.15.

Devon (Denbury): redecoration—T. H. Kenyon and Sons, Ltd., London, W.9.

Dorset (Bovington): building—Burt and Vick, Ltd., Poole.

Co. Down (Lisburn): building—Baird Bros., Belfast.

Essex (Colchester): painting and decorating—Donald Humberstone and Co., Ltd., Louth.

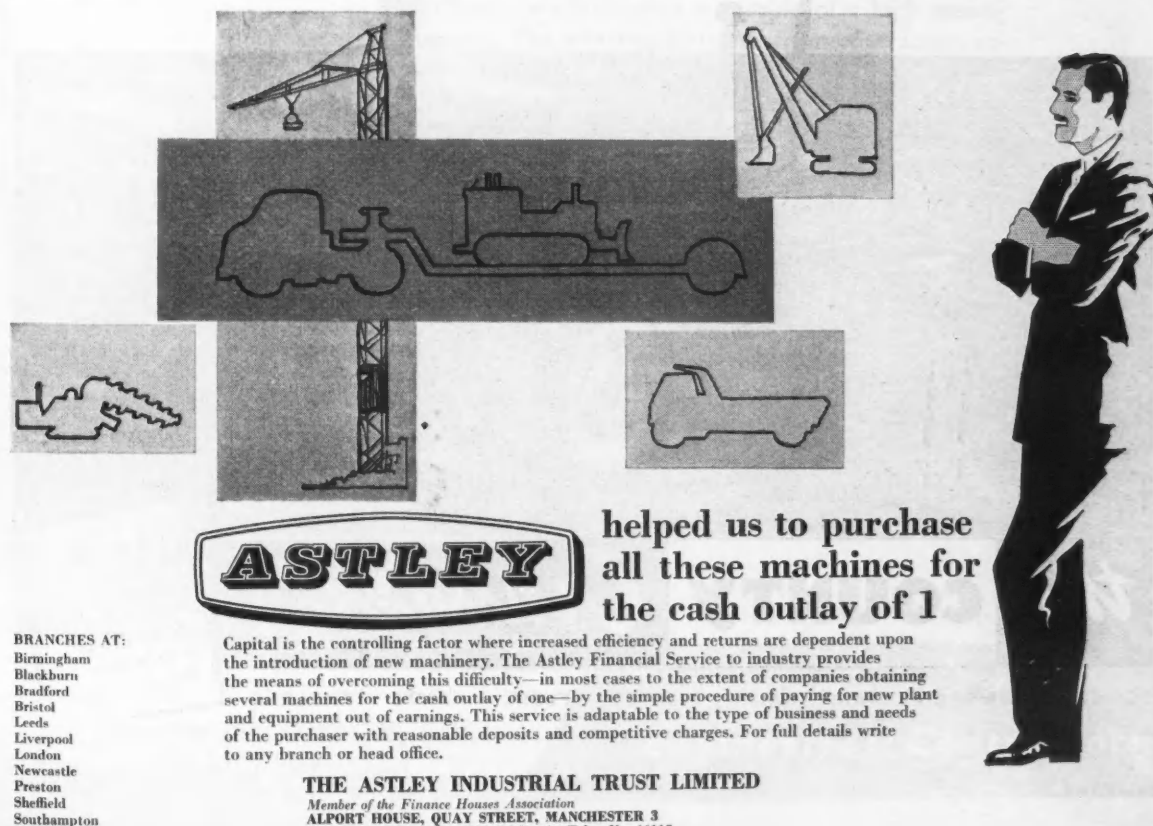
Kent (Shorncliffe): building—J. J. Clayson and Son, Ltd., Folkestone (Chatham): building—J. H. Durrant and Son, Ltd., Rochester.

Pembrokeshire (Castlemartin): painting and decorating—J. H. Woodward (Contractors), Ltd., Leamington Spa.

Shropshire (Donnington): water supply—D. B. Evans (Bilston), Ltd., Bilston.

Warwickshire (Long Marston): roadwork—Norman W. Dunn and Co., Ltd., Bromsgrove; (Nuneaton): decoration—F. Harris and Co., Ltd., Leicester.

Worcestershire (Droitwich): roadwork—W. and J. Glossop, Ltd., Birmingham.



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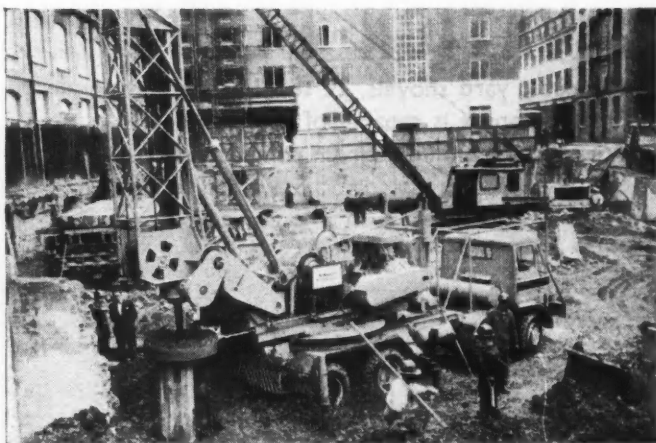
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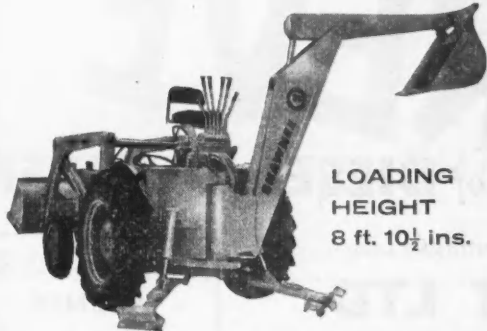
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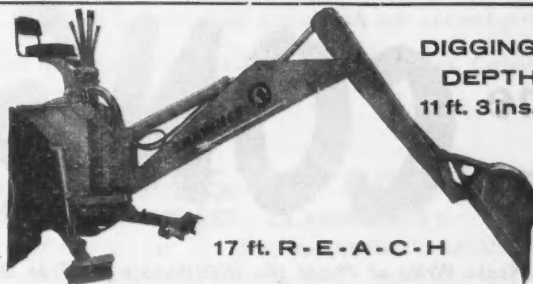
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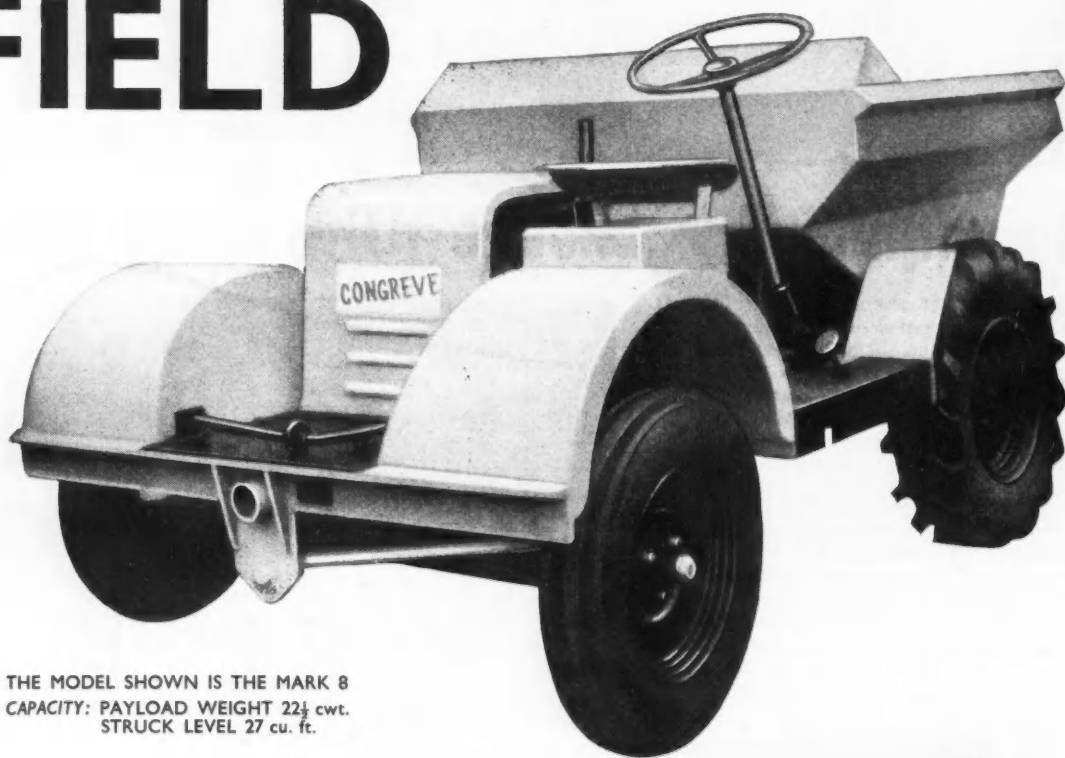
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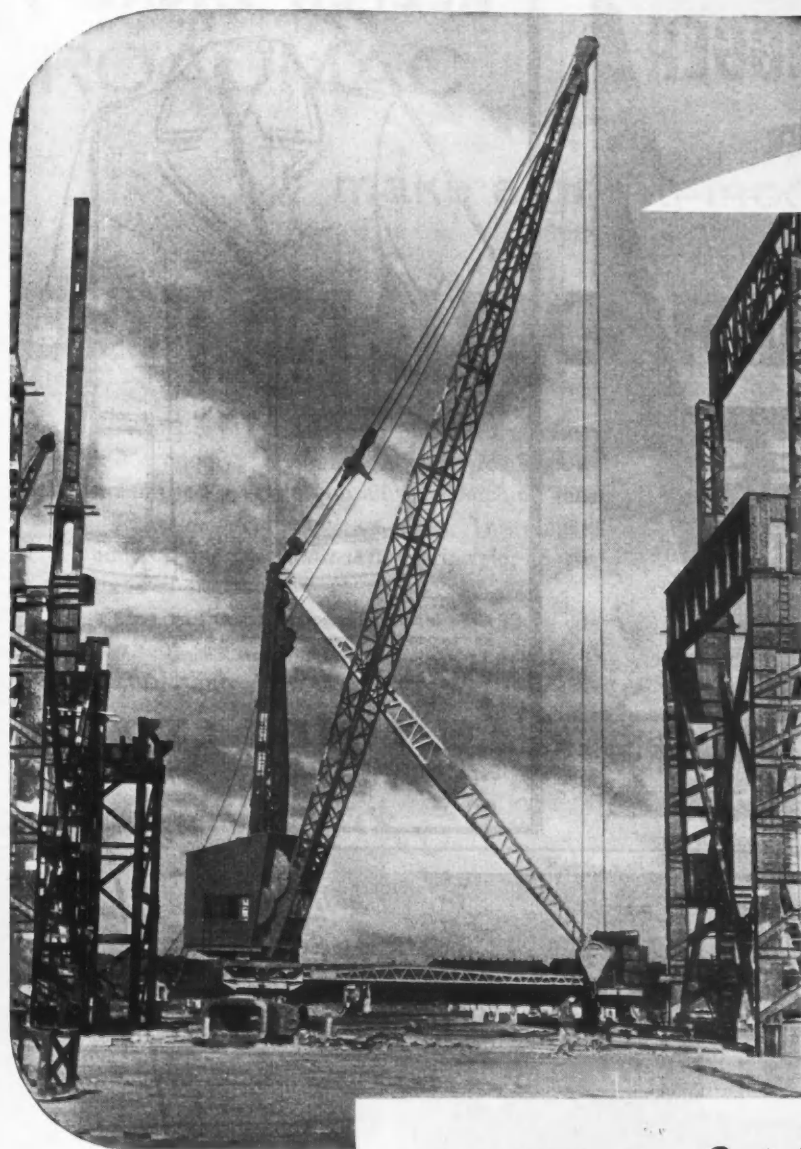
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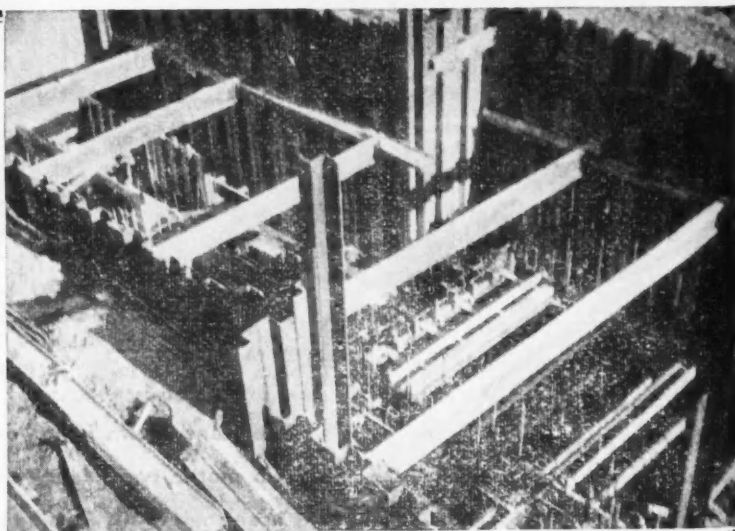
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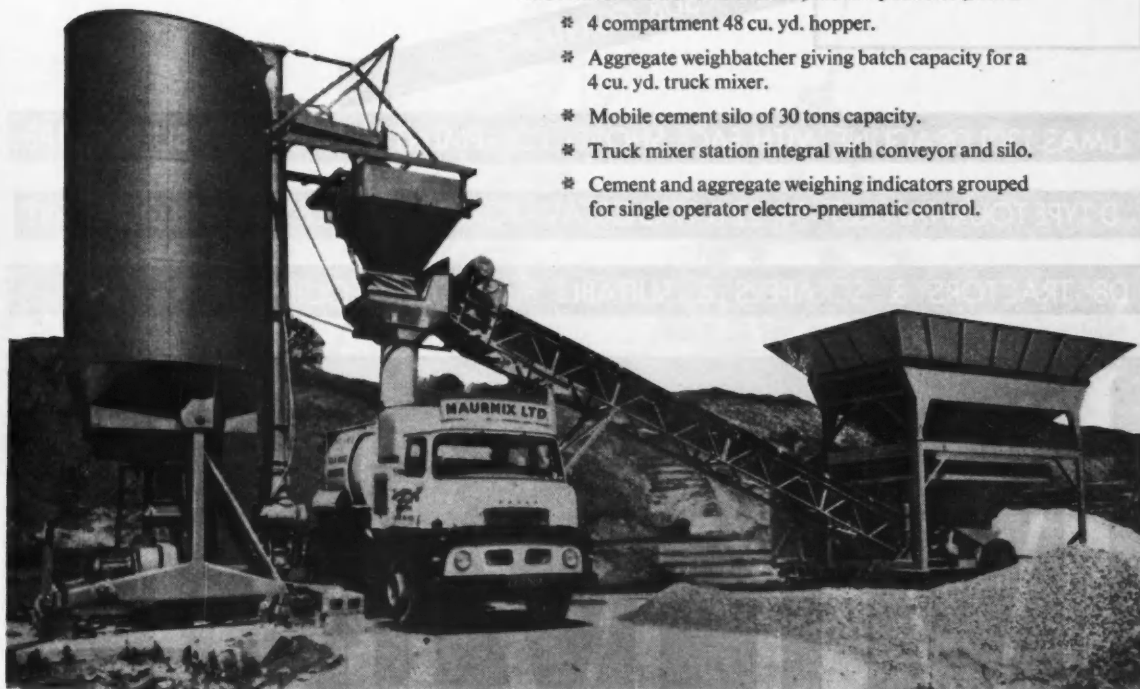
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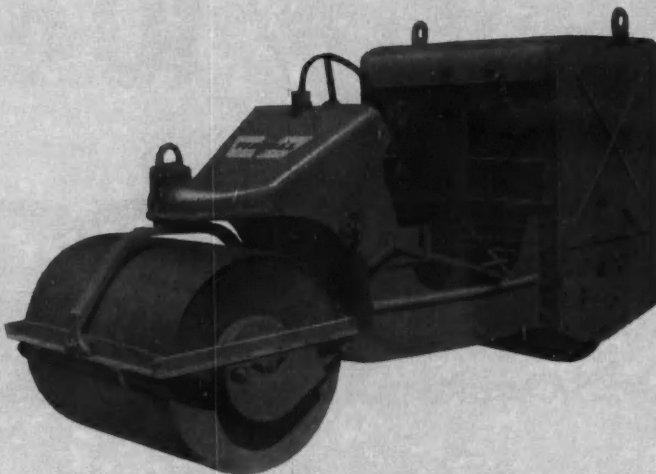
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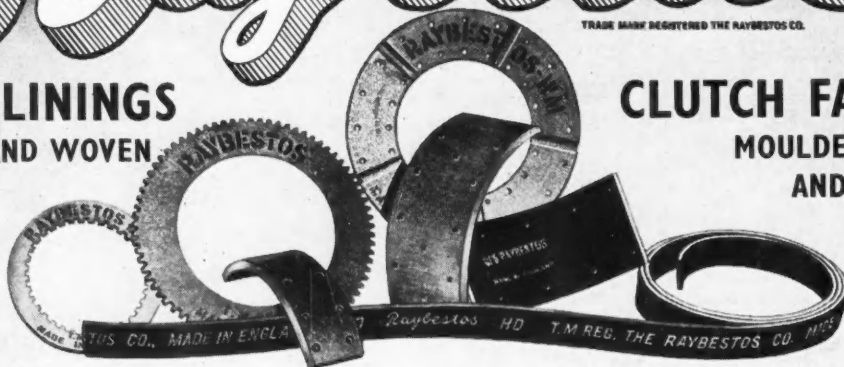
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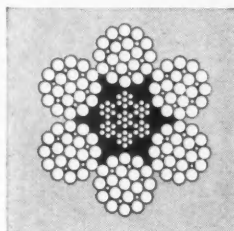
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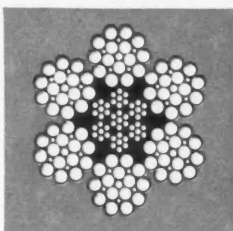


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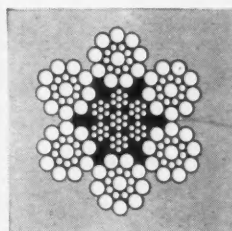
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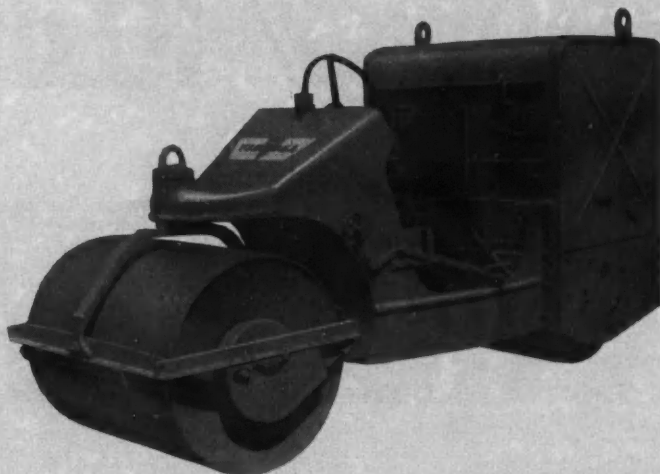
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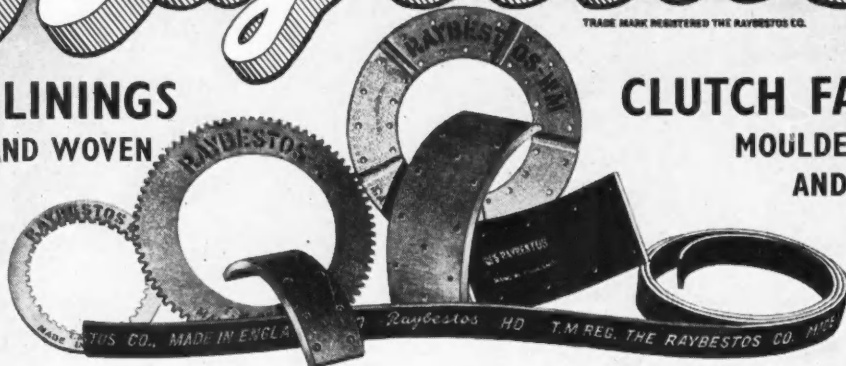
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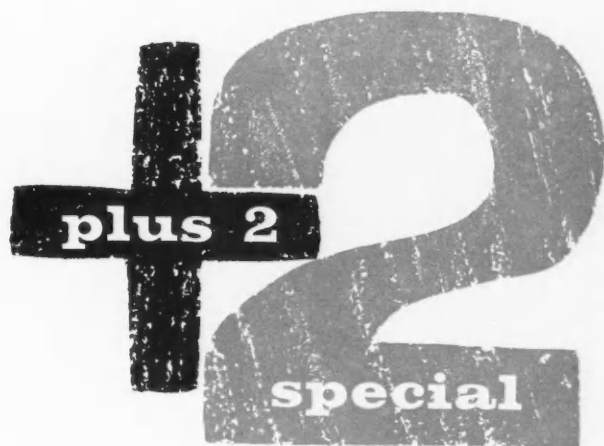
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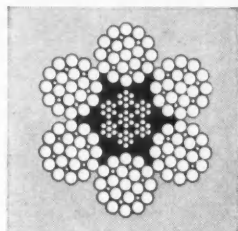
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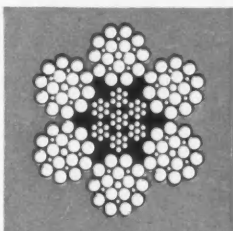


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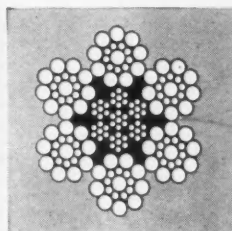
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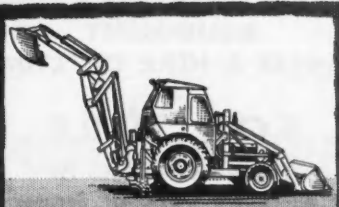
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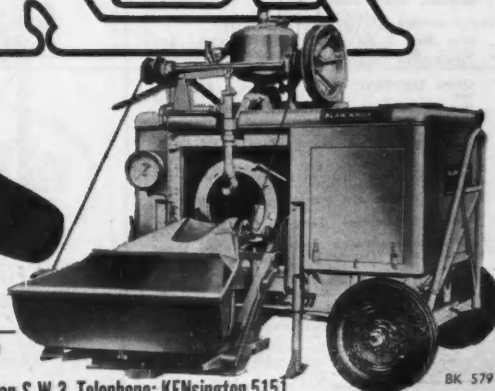
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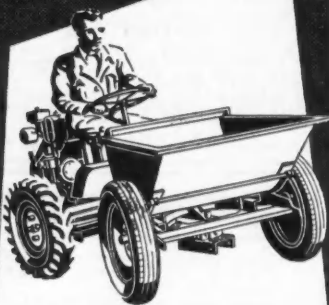
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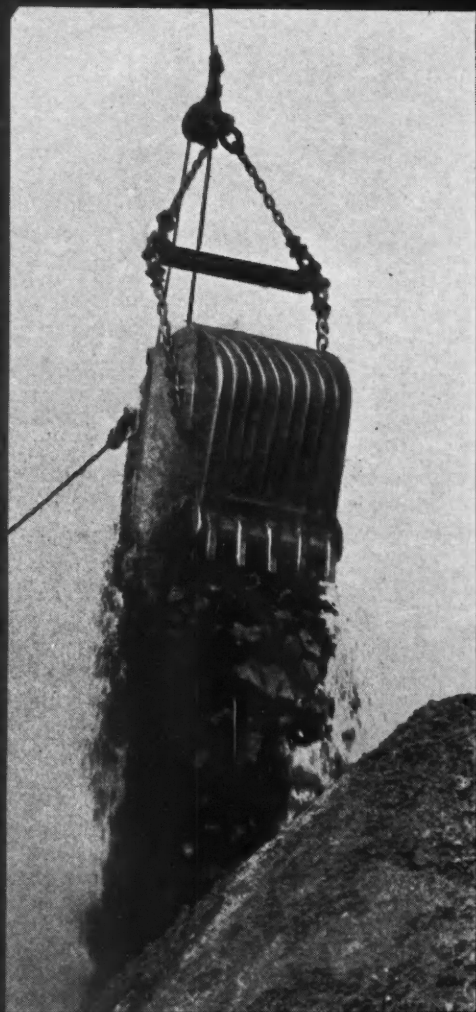
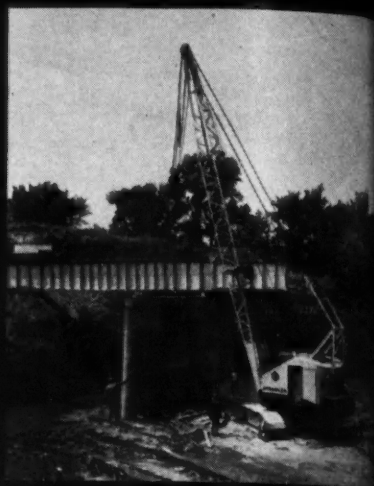
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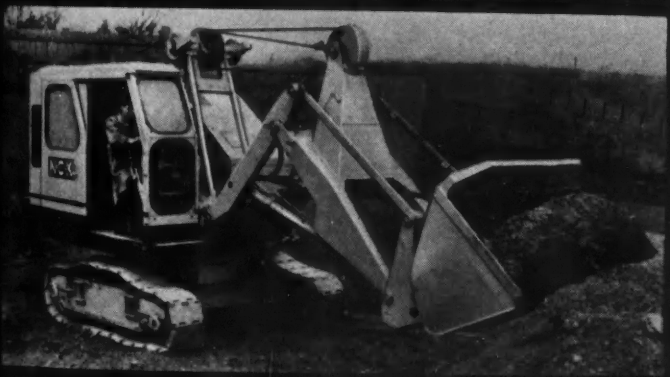


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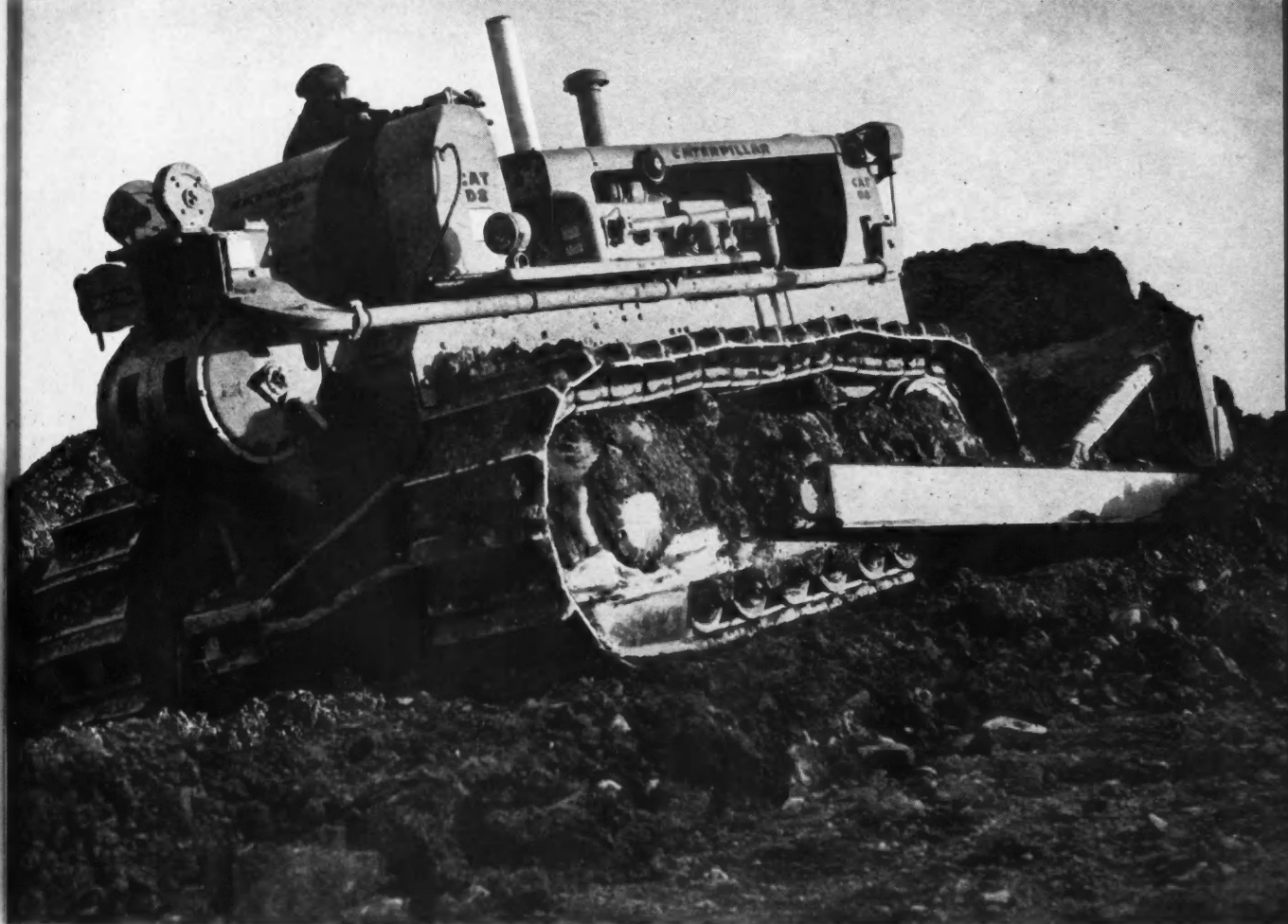
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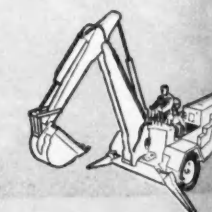
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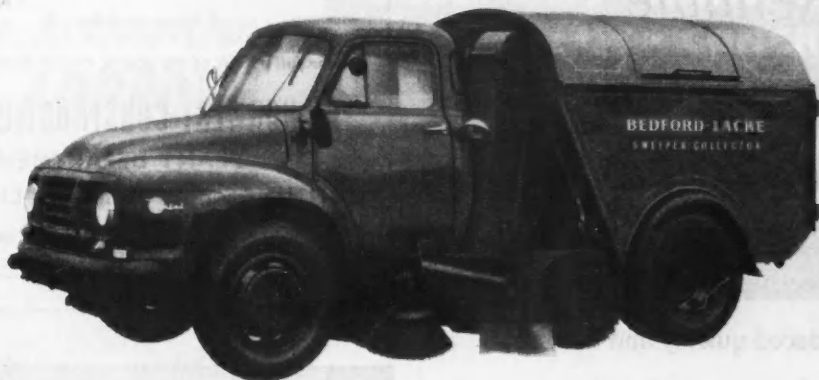
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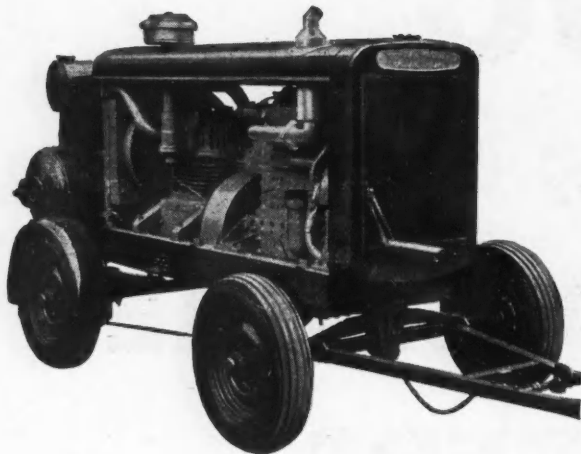
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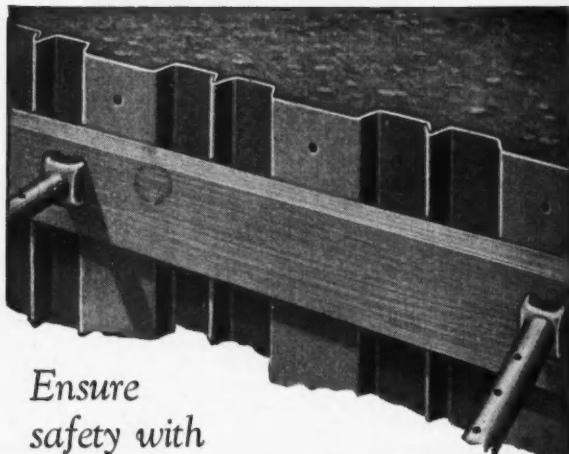
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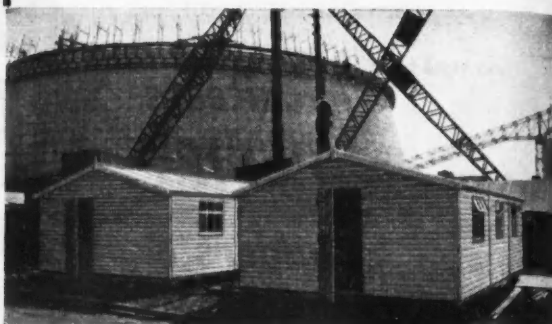


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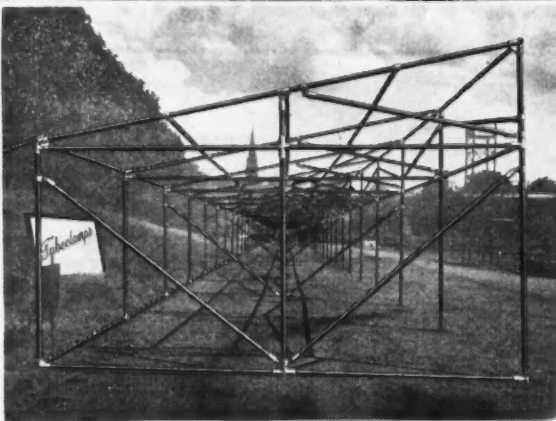


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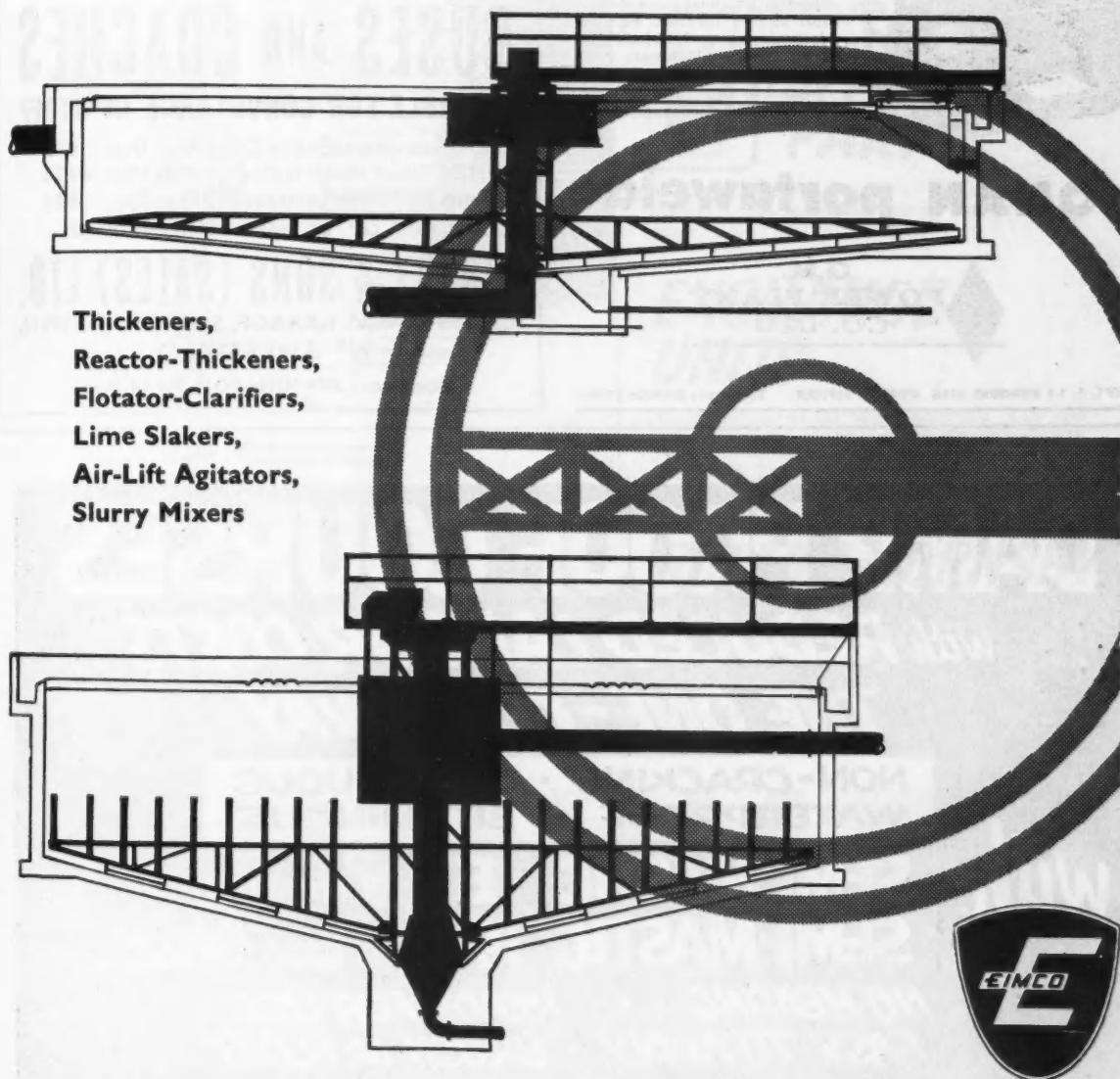
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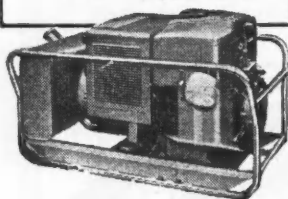
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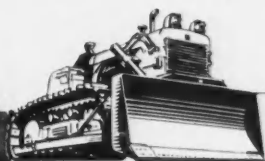
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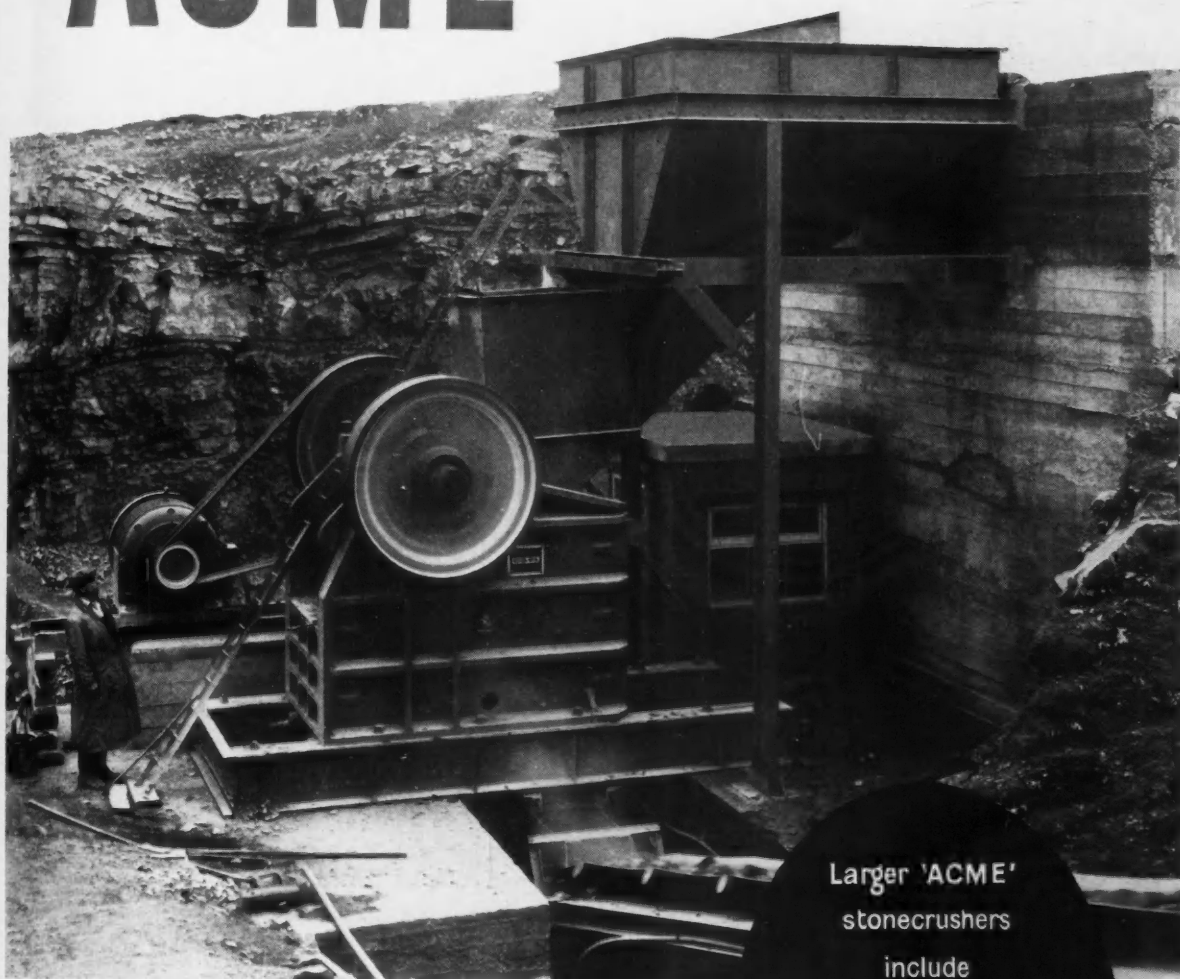






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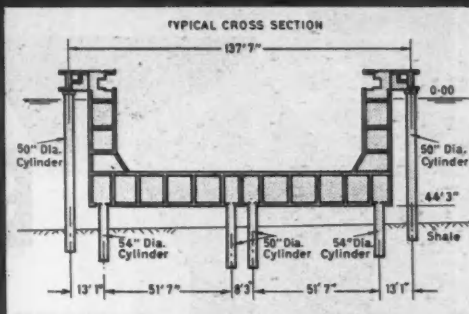
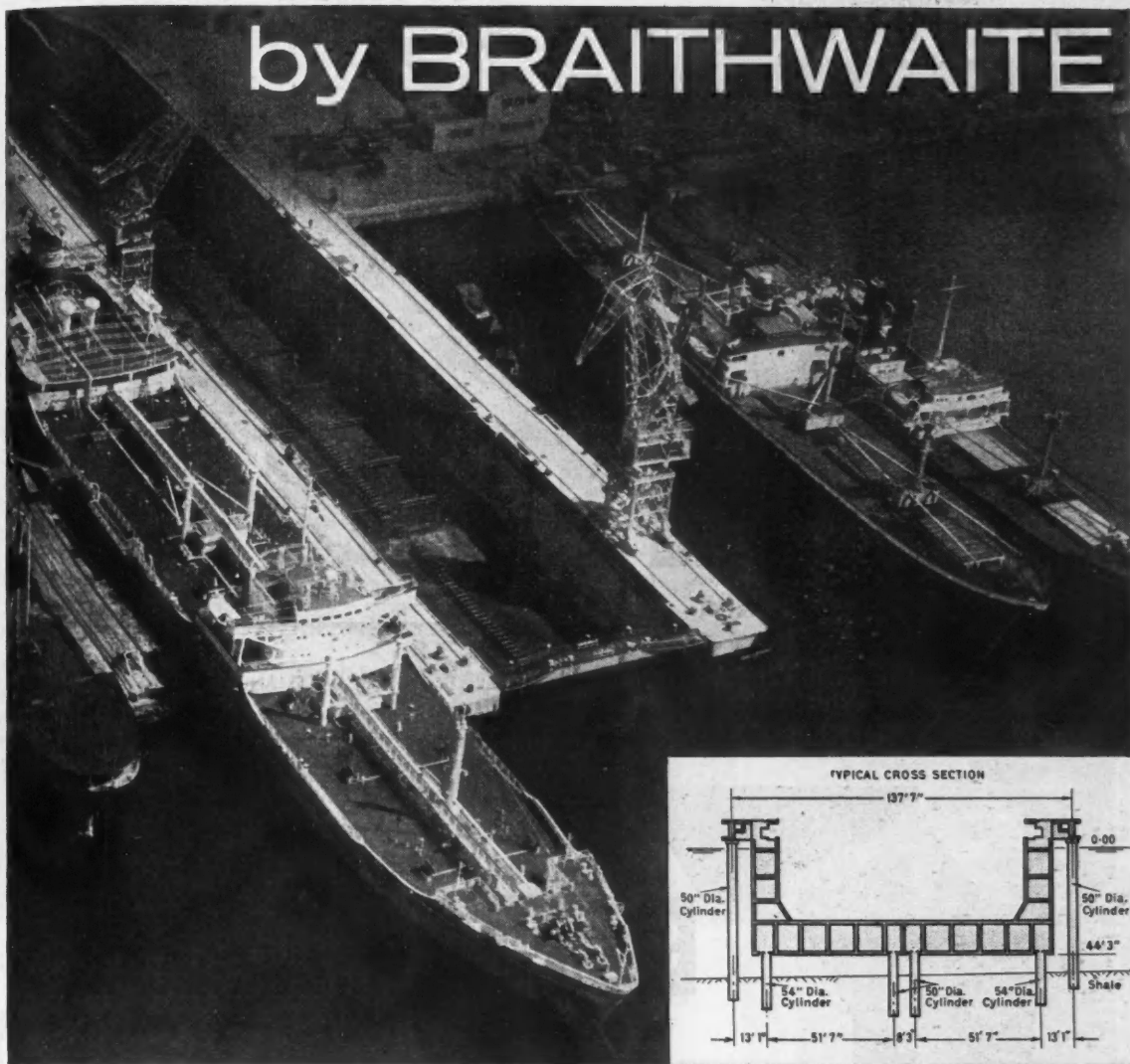


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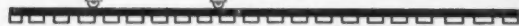
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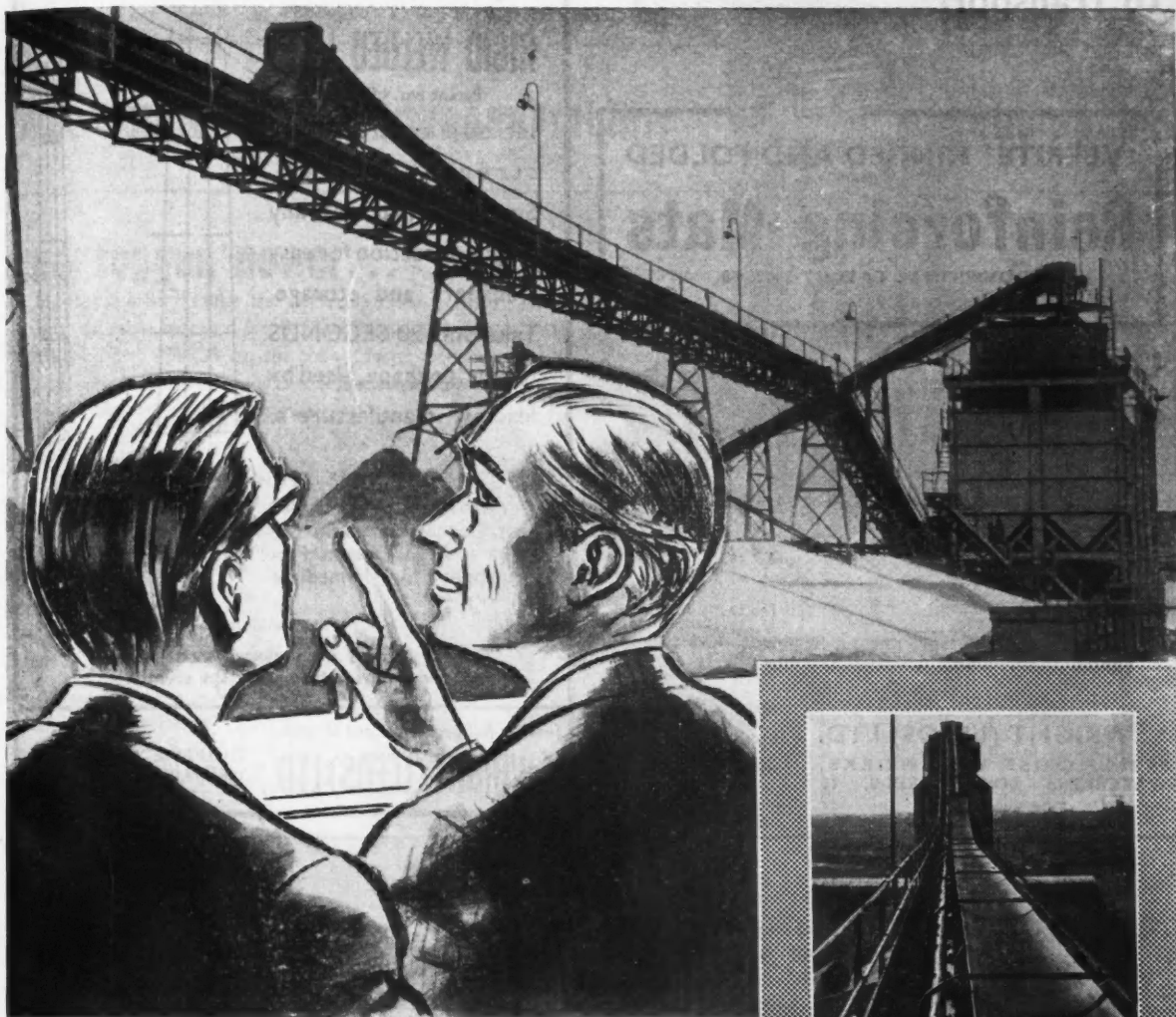
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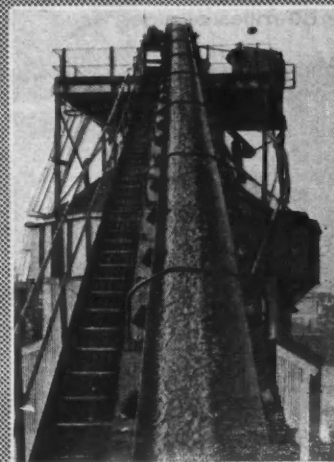
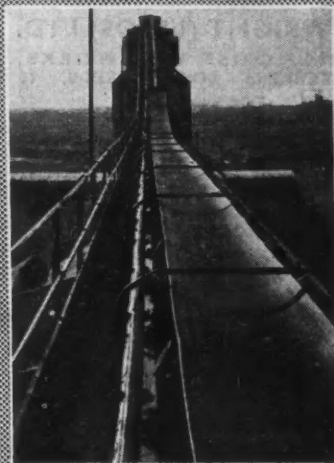
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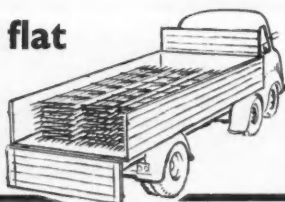
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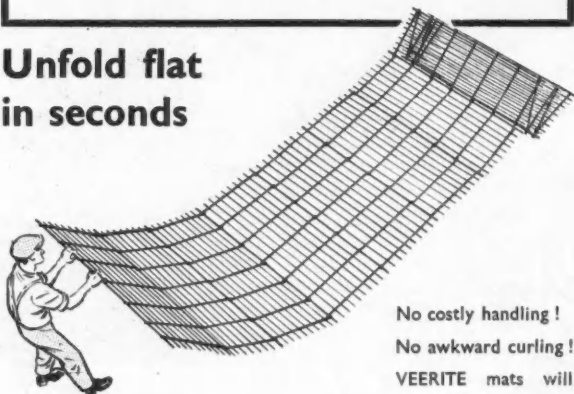
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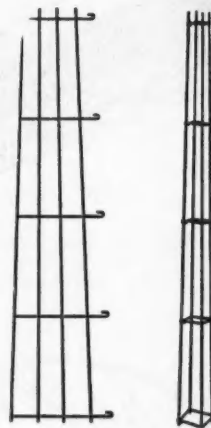
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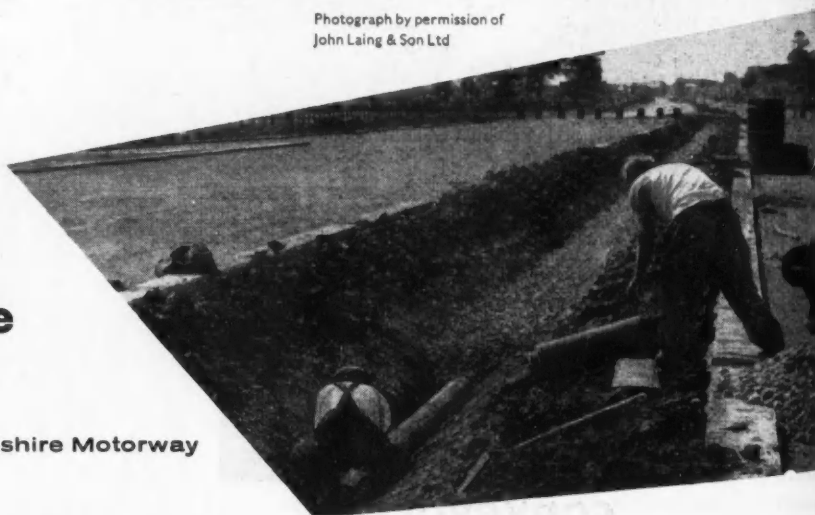
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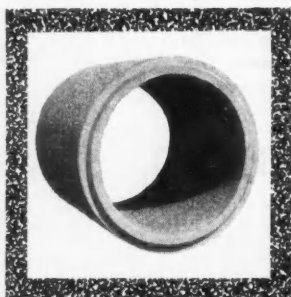
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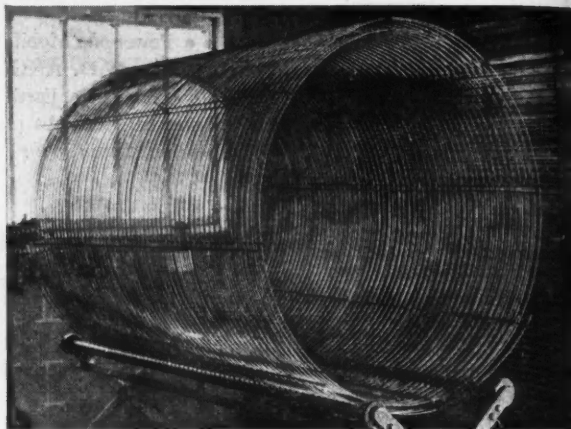


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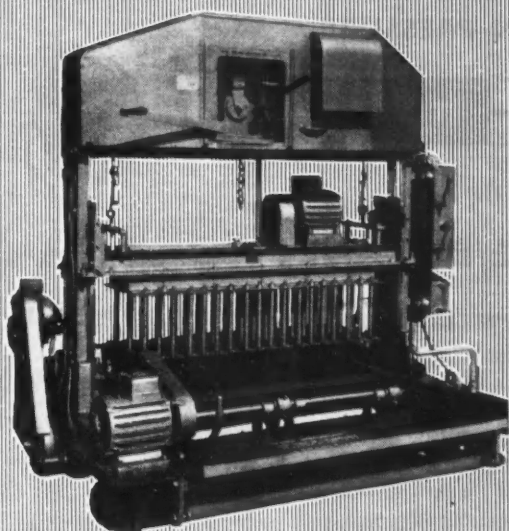
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**BRAITHWAITE, A. AND CO., LTD.**, Knarborough, Yorks. Quarry at Catterick. (Tel.: Old Cast. 157.) (For details see Yorkshire.)

## ESSEX

**ALRESFORD SAND AND BALLAST CO., LTD.**, Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 201.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.  
**BAKER, F. AND SONS, LTD.**, 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For data, see Leics.)  
**BENT-MARSHALL (LEYTON), LTD.**, 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast, brick and concrete hardcore delivered all areas.  
**DANGERFIELD, F. J., & CO., LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**FERRIS PITS, LTD.**, The Lime Garage, Fencypiece Road, Barking, Essex. (Tel.: Hainault 5271/2-3.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.  
**HALL AND CO., LTD.**, Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.  
**HUNNABLE, F. AND SONS, LTD.**, Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, 'gin to reject; washed concrete sand and gravel; building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Bossey End, Hedingham and Althamton.  
**LEIGH BUILDING SUPPLY CO., LTD.**, Head Office: 956, London Rd., Leigh-on-Sea, Essex. 78264-5 lines.) All grades washed material building sand, hardcore, ashes, bricks, granite.  
**PETERS AND BARNHAM, LTD.**, 409 South Street, Romford. (Tel.: Romford 44141-7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chigwell, St. James, Dagenham, Great Waltham, North Ockendon, Roxwell, West Thurrock.  
**READ, P. T., LTD.**, Foxlands Gravel Pit, Foxlands Crescent, Dagenham. (Tel.: Hainault 6111.) All sands, ballast and shingles supplied and delivered. No ready-mixed concrete.  
**READ, P. T., LTD.**, Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**STANWAY CONTRACTS, LTD.**, Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.  
**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Washed and graded aggregates. Local Office and pits: Tillingham 387.  
**WIVENHOE SAND, STONE AND GRAVEL CO., LTD.**, Wivenhoe 231.) High-quality washed aggregates of all grades.

## GLOUCESTERSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.  
**BENGRY AND SONS, LTD.**, Longmoor, Kingland, Herefordshire. (Tel.: Kingland 301/4.) (See details under Herefordshire.)  
**COKE, T. F. (CHELTENHAM), LTD.**, 257 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, sunning blocks, fence posts, etc. etc.  
**CROMHALL QUARRIES, LTD.**, Cromhall, Wotton Under-Edge, Glos. (Tel.: Failand 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.  
**GRIFFITHS, A. AND SONS**, Churchdown, Gloucestershire. Pits, quarry and dredger owners. All grades and types aggregate materials. (Tel.: Churchdown 3135 & 2216.)

Rates for insertion in this GUIDE will be forwarded on application.

# CONTRACTORS' GUIDE TO AGGREGATES

## GLOUCESTERSHIRE

**HALL AND CO. LTD.**, Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.  
**POOLE (LECHLADE) LTD.**, Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)  
**LAYMAC LTD.**, Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391-5 lines.) (See Wiltshire.)  
**WHITECLIFF QUARRIES AND BRICKWORKS LTD.**, Coleford, Glos. (Tel.: Coleford 3158/9.) Tared and bituminous limestone macadam, asphalt, concrete aggregates, dolomite media, engineering, facing and common bricks for all purposes. Delivery road or rail.

## HAMPSHIRE

**AMEY'S AGGREGATES LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For det., see Leics.)  
**BULL BROS., S. AND L. LTD.**, 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted, pit-mixed, weightbatched to meet any specification) also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Kingwood, Romsey, Swan and Totton.  
**DANGERFIELD, F. J. & CO. LTD.**, 261A Finchley Rd., London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**GILSON, S. C. AND SONS LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)  
**HALL AND CO. LTD.**, Ballic Wharf, Marine Parade, Southampton. (Tel.: Southampton 21234, and at Portsmouth, Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concrete, plastering and building sand.  
**HASKINS, G. AND SONS**, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2693.)  
**MOREYS (VERWOOD) LTD.**, Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.  
**NEW MILTON SAND AND BALAST CO.**, Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sand.  
**PRIVETT, W. G. AND SONS LTD.**, Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.  
**RALPH OF BASINGSTOKE LTD.**, 37 Kemphost Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.  
**WRAYBURY SAND AND GRAVEL CO. LTD.**, Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)  
**WESSEX SAND AND GRAVEL CO. LTD.**, 125 Hillside Ave., Southampton. (Tel.: 5516.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

## HEREFORDSHIRE

**BENGVY AND SONS LTD.**, Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalting, pitching stone, hardcore and coated macadam.  
**DINMORE GRAVEL AND STONE CO. LTD.**, 5A King Street, Hereford. (Tel.: Hereford 523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.  
**HARPER AND THOMAS LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire.)  
**NAMI ROCKS STONE AND LIME CO. LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tared and bituminous macadam, roadstone, chippings and concrete aggregates.  
**OLD RADNOR TRADING CO. LTD.**, Kingston. (Tel.: 11.) Granite and limestone aggregates, coated macadam, concrete products.  
**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel.: 961.) Salop.  
**WHITECLIFF QUARRIES AND BRICKWORKS LTD.**, Coleford, Glos. (Tel.: 3158/9.) (See Gloucestershire.)

## HERTFORDSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For det., see Leics.)  
**DANGERFIELD, F. J. AND CO. LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**EASTWOOD BALZAR LTD.**, Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddeston 2456.) Producers and distributors of all grades of aggregates.  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.  
**HALL AND CO. LTD.**, Railway Yard, Orchard Road, Stevenage. (Tel.: 775.) and at Hatfield. Gravel aggregates, concrete, plastering and building sand.  
**ST. IVES SAND AND GRAVEL CO. LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**WEBB, G. CAMBRIDGE**, 35 Magrath Avenue, Cambridge. (Tel.: 3969/4353.) (See Cambridgeshire.)  
**WINFIELD, HENRY LTD.**, Pix Farm Lane, Hemel Hempstead. (Tel.: Berkhamstead 1208/9.) Pits at Waford, Leighton Buzzard, Heath and Hemel, and Bedford.

## HUNTINGDONSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For det., see Leics.)  
**DANGERFIELD, F. J. AND CO. LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**FERRERSAND AGGREGATES LTD.**, Northampton Road Quarries, Rushden (2354/5). (See Northants.)  
**GRAVEL PRODUCTS (HUNTS) LTD.**, St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds, Hunts and South Cambs.  
**NINE BARGE AND LIGHTER CO. LTD.**, Market Chambers, Peterborough. (Tel.: 5534/5.) and Ship End Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica sand.  
**ST. IVES SAND AND GRAVEL CO. LTD.**, 22 The Broadway, St. Ives. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.  
**WEBB, G. CAMBRIDGE**, 35 Magrath Avenue, Cambridge. (Tel.: 3969/4353.) (See Cambridgeshire.)  
**WELFORD GRAVELS LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

## KENT

**BEASTED SAND PITS**, Beasted, Kent. (Tel.: 586.) London office: 6A Ebury Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.  
**BROWN BROS. (SITTINGBOURNE) LTD.**, Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingles, hardcore, clinker, breeze blocks, etc.  
**CLUBB, J. LTD.**, Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.  
**DIAMOND TREAD CO. (1938) LTD.**, Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarryworks: tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001-10 lines.)  
**DIAMOND TREAD CO. (CHART) LTD.**, Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners: tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)  
**HALL AND CO. LTD.**, Canning Street, Maidstone. (Tel.: Maidstone 51051), and at Folkestone and Hayes. Pits at Lunford near Larkfield. Gravel aggregates, concreting, plastering and building sand. Supercure precision-mixed concrete.  
**HARRIS, M. F. AND CO. LTD.**, Station Road, Padstow, West Kent. (Tel.: 385.) (See Sussex.)  
**TILBURY CONTRACTING AND DREDGING CO. LTD.**, Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tared, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

## LANCASHIRE

**BROOMBYS LTD.**, Sandeide, Milnthorpe. (Tel.: 3251/2.) Westmorland. (See Westmorland.)  
**BUCKTON QUARRY**, Broken stone, all grades. (Tel.: Moseley 144.)  
**CASTLETON SAND AND GRAVEL QUARRIES LTD.**, Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates, pitching stone.  
**CROFT GRANITE BRICK AND CONCRETE CO. LTD.**, West Bank, Widnes. (Tel.: 2656.) "Kubitzed" granite aggregate to B.S.S., tared and bituminous macadam, cold asphalt, "Croftmatte" Wet Mix, filter media, concrete products.  
**CROXEN GRAVEL LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Stoke-on-Trent 227/8.) Blackfriars 3766/7. Plant capacity, 2,000 tons per day.  
**DUNNING AND SON LTD.** (See Shropshire.)  
**HARTLEY, JOHN W. LTD.**, Lunelside Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all constructional purposes.  
**HILTON GRAVEL LTD.**, Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quatriles at Cheshire, Staffs. (Tel.: Team 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)  
**HULLAND GRAVEL CO. LTD.**, Cheshire, Stoke-on-Trent. (Tel.: Cheshire 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 1 Cateaton Street, Manchester. (Tel.: Blackfriars 227/8.)  
**PENMAENMAWR AND WELSH GRANITE CO. LTD.**, all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.  
**Liverpool and Preston Depots:**  
 Office: 7 Picton Road, Liverpool, 15.  
 (Tel.: Salford Park 7261.)  
 Manchester Depot:  
 Office: Cornbrook Road, Manchester, 15.  
 (Tel.: Trafford Park 3830.)  
**ROUND-O QUARRIES LTD.**, Helaby Street, Warrington. (Tel.: 35451-4 lines.) Buildings and concrete sand and shale.  
**TERN HILL SAND AND GRAVEL CO. LTD.**, Almonington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)  
**TRENTHAM GRAVEL CO. LTD.**, Lordley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel sharp sand, concrete sand, plastering sand. Plant capacity: 2,000 tons per day.  
**WELFORD GRAVELS LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Office and pits, Chorley 3223.  
**WITHRES LIMESTONE LTD.**, Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.  
**X.L. GRANITE (INGLETON) LTD.**, Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

## LEICESTERSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London Office—Norwood Hill 115.) Best Leicester-shire grey granite, dry and coated gradings to any specification: cold asphalt and wet mix. Prompt road/rail delivery.  
**BRUNTINGTHORPE GRAVELS LTD.**, Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregate, concrete and sand to B.S.S., scientifically balanced ballast.  
**CLIFFE HILL GRANITE CO. LTD.**, Marketfield, near Leicester. (Tel.: Marketfield 501/2/3.) Granite aggregates to B.S.S. All sizes. Tared and bituminous granite, concrete slabs and kerbs. Transi-mixed concrete.  
**CROFT GRANITE, BRICK AND CONCRETE CO. LTD.**, Croft, near Leicester. (Tel.: Netherborough 2261-4 lines.) "Kubitzed" granite aggregate to B.S.S., tared and bituminous macadam, cold asphalt, "Croftmatte" Wet Mix, filter media, concrete products.  
**DUSTON STONE QUARRIES LTD.**, New Duston, Northampton. (Tel.: Brinkley 278 and 298, Duston 505.) (See Northamptonshire.)  
**ENDERBY AND STONEY STANTON GRANITE CO. LTD.**, 21 New Walk, Leicester. (Tel.: 5682/2.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)  
**HILTON GRAVEL LTD.**, Hemmington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)  
**HOVERINGHAM GRAVEL CO.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)  
**MOUNTSOREL GRANITE CO. LTD.**, 21 New Walk, Leicester. (Tel.: Leicester 46.) Mountsorel, near Loughborough. 4in. pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

## LEICESTERSHIRE

**WANLIP GRAVELS LTD.**, Wanlip Road, Byem, Leicester. Any size or gradings, scientifically balanced ballast. All to B.S.S. (Tel.: Byem 2327 and 2797.)  
**WELFORD GRAVELS LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Northamptonshire.)  
**WREAKE VALLEY GRAVELS CO. LTD.**, Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

## LINCOLNSHIRE

**BULLIMORE SAND AND GRAVEL LTD.**, South Witham, Grantham. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.  
**BURROWS BROTHERS (EXCAVATIONS) LTD.**, Market Place Chambers, West Bar, Chesterfield. (Tel.: 7130.) (For details, see Derbyshire.)  
**CONINGSBY SUPPLY CO. LTD.**, Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex-quarries or delivered.  
**DOW-MAC (PRODUCTS) LTD.**, Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)  
**EAST MIDLAND BUILDERS SUPPLY CO. LTD.**, 21 Canbyke West, Barton-on-Humber, Lincs. (Tel.: 2180.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.  
**GIBBONS, F. B. AND SONS LTD.**, Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2363.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregates.  
**HARTSHOLME GRAVEL AND SAND CO. LTD.**, Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 8741.)  
**HOVERINGHAM GRAVEL CO.**, Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)  
**PETERBOROUGH QUARRIES LTD.**, Sandylands, Maccy, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone (see also Northamptonshire.)  
**POLLARD, C. AND SON (TALLINGTON) LTD.**, Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. "For Supercrete" ready mixed concrete.  
**TRENTFORD GRAVELS LTD.**, Head Office: Deansgrove, Grimby. (Tel.: Grimby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, lamm, ashes, etc. Pits and quarries throughout the county.

## LONDON

**BARDON HILL QUARRIES (ELLIS AND EVERARD) LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For det., see Leics.)  
**COX, H. AND SONS LTD.**, 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 22-3 lines.)  
**CROFT GRANITE, BRICK AND CONCRETE CO. LTD.**, 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 7 and 1246.) "Kubitzed" granite aggregate to B.S.S., tared and bituminous macadam, cold asphalt, "Croftmatte" Wet Mix, filter media, concrete products.  
**DANGERFIELD, F. J. AND CO. LTD.**, 261A Finchley Road, N.W.3. (Tel.: Hampstead 8044-8.) Granite, limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felpar quartz and other materials by bulk or ex-London stock.  
**DORSET LIMESTONES LTD.**, Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)  
**DRINKWATER, W. W. (WILDESDEN) LTD.**, Duden Hill Lane, Willesden, N.W.10. (Tel.: GLADSTONE 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 225/3.) Pits at Enfield and Hertford Heath, Middlesex. (Tel.: Hounslow 6224/3.)  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.  
**HALL AND CO. LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at Epsom Dulwich, Forest and Wandsworth. Gravel aggregates, concrete, plastering and building sand.  
**KEEN, W. J. AND SONS**, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast.  
**LONDON BALLAST CO. LTD.**, (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.  
**READ, P. T. LTD.**, Downs Works, Amhurst Terrace, Epsom, Surrey. (Tel.: Epsom 6971/2.) All sand, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)  
**ROADS RECONSTRUCTION (1934) LTD.**, Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

## MERIONETHSHIRE

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel.: 961.) Salop.

## MIDDLESEX

**CROSS, GEO. C. AND CO. LTD.**, Ironbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc.  
**DRINKWATER, W. W. (WILDESDEN) LTD.**, Station Road, Hounslow Hth., Middx. (Tel.: Hounslow 6222/3.)  
**GABRIEL, C. LTD.**, Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.  
**GRUNFORD, S.**, 79 Uxbridge Road, Hillingdon, Middx. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.  
**HALL AND CO. LTD.**, Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at Amford Gravel aggregates, concrete, plastering and building sand.  
**LONDON BALLAST CO. LTD.**, (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.  
**STUART MACY LTD.**, Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)  
**THAMES SAND AND GRAVEL CO. LTD.**, Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concrete, plastering and building sand.  
**WRAYBURY SAND AND GRAVEL CO. LTD.**, Pits at Wraybury. (Tel.: Wraybury 164.) Gravel aggregates, concrete, plastering and building sand.



# CONTRACTORS' GUIDE TO AGGREGATES

## MID-WALES

**BENGRY AND SONS, LTD.**, Llanmorog, Kingsland, Locominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**ELESMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

**NASH ROCKS, STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel. 961.) Salop.

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

## MONMOUTHSHIRE

**IN-SITU CONCRETE, LTD.**, Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhiwina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

**MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD.**, Office: 18 Chertow Road, Newport, Mon. (Tel.: Newport 5831/2/3.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

**WHITECLIFF QUARRIES AND BRICKWORKS, LTD.**, Colford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

## MONTGOMERYSHIRE

**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

**NASH ROCKS, STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel. 961.) Salop.

## NORFOLK

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**FRECKENHAM GRAVEL CO., LTD.**, The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pitt: Feltham.

**JOHNSON, F. C. H., LTD.**, Station Road, Terrington St. Clement, N. Hants. (Tel.: Terrington 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

**THORPE GRAVEL PITS, LTD.**, Harvey Lane, Norwich. (Tel.: Norwich 324/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

## NORTHAMPTONSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 583.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 454) for washed and graded aggregates to B.S.S.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**BICESTER STONE CO., LTD.**, Stratford, Audley, Bicester, Oxon. (Tel.: Stratford Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

**BILLING GRAVEL CO., LTD.**, Station Road, Billing, Northampton. (Tel.: Cogenhoe 219.) London office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

**BRAYBROOK, E. W., LTD.**, Newton Road, Hutham, Peterborough. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., Building sand, hardcore.

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**DOW-MAC (PRODUCTS), LTD.**, Tallington, Stamford. All grades of washed aggregates and gravel. (Tel.: Market Deeping 2301.)

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Braxworth 278 and 298; Duston 505.) Producers of crushed and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and boggia. Immediate delivery throughout Northamptonshire.

**FERRERSAND AGGREGATES, LTD.**, Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

**GIBBONS, F. B. AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

**HOVERINGHAM GRAVEL CO., LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171-15 lines.) (For details, see Nottinghamshire.)

**KETTON STONE CO. (Prop. Andrew's Garage),** Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

**WENE BARGE AND LIGHTER CO., LTD.**, Market Chambers, Peterborough. (Tel. 5534/3.) and Ship End Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, sand and gravel.

**WYKAR (PETERBOROUGH) SAND AND GRAVEL CO., LTD.**, 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

**WYKAR QUARRIES, LTD.**, Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Elastic sand and gravel, broken stone, hardcore and broken stone. Also Wetzum at Yarewell, Wansford. All grades gravel and sand at Maxey.

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

**WELFORD GRAVELS, LTD.**, Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Portly Ford. (Tel.: Welford 256.)

## NORTH WALES

**CAWDOY, WHARTON AND CO., LTD.**, Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon 27.) Crushed limestone and tarred macadam, all grades.

## NORTH WALES

**CHESHIRE AND NORTH WALES TARRIED MACADAM CO., LTD.**, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 3804.)

**ELLESMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

**ENSTON BROS.**, Llyn Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Penawen and Gwydyr Quarries, Ltd., Trefriw, Penawen, Denbighshire. (Tel.: Llanrwst 38.)

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, Quarries at Penmaenmawr. (Tel. 2256/8.) and at Trevor. (Tel.: Clynogfawr 223.) Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

**RUTHIN AND DENBIGH TARMACADAM CO., LTD.**, Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408-4 lines.) and Lunt Bros., Ltd., Churchbridge (Tel. 5201-6 lines).

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

## NOTTINGHAMSHIRE

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**BURROWS BROTHERS (EXCAVATIONS), LTD.**, Market Place Chambers, West Bar, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

**GLEN QUARRIES, LTD.**, Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete, building sand, plastering sand and crushed gravel; could be collected ex-quarry or delivered.

**GUTHORPE GRAVELS (1958), LTD.**, (Tel.: Nottingham 77357; and Works: Loughdam 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

**HOVERINGHAM GRAVEL CO., LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171-15 lines.) Quarries at Hoveringham, Holmes, Pierpoint, Quail, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

**NEWARK GRAVEL AND CONCRETE CO., LTD.**, Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel. 272/273.) (For details see Derbyshire.)

## OXFORDSHIRE

**AMEY'S AGGREGATES, LTD.**, Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 583.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 454) for washed and graded aggregates to B.S.S.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**BENGRY AND SONS, LTD.**, Llanmorog, Kingsland, Locominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**BICESTER STONE CO., LTD.**, Stratford, Audley, Bicester, Oxon. (Tel.: Stratford Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

**CURTIS, J. AND SONS, LTD.**, Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**DIX, G. H. AND SON, LTD.**, Freeland, Oxon. (Tel.: Freeland 234.)

**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Braxworth 278 and 298; Duston 505.) Producers of crushed and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and boggia. Immediate delivery throughout Northamptonshire.

**GRUNDON, S. (EWELME), LTD.**, Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

**HAINES, H. (WITNEY), LTD.**, Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

**WRAYBURY SAND AND GRAVEL CO., LTD.**, Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

## RADNORSHIRE

**BENGRY AND SONS, LTD.**, Llanmorog, Kingsland, Locominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**NASH ROCKS, STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel. 961.) Salop.

## RUTLAND

**BULLIMORES SAND AND GRAVEL, LTD.**, South Witham, Grantham, Lincs. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

**GIBBONS, F. B. AND SONS, LTD.**, Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

**HOVERINGHAM GRAVEL CO., LTD.**, Hoveringham, Nottingham. (Tel.: Loughdam 3171-15 lines.) (For details, see Nottinghamshire.)

**KETTON STONE CO. (Prop. Andrew's Garage),** Ketton, nr. Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

**PETERBOROUGH QUARRIES, LTD.**, Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

## RUTLAND

**POLLARD, C. AND SON (TALLINGTON), LTD.**, Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

## SCOTLAND

**KEIR AND CAWDER, LTD.**, Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

## SHROPSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output, reliable deliveries.

**BENGRY AND SONS, LTD.**, Llanmorog, Kingsland, Locominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

**DUNNING AND SON, LTD.**, Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

**ELLESMERE SAND AND GRAVEL CO., LTD.**, Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) All grades of washed gravel, aggregates, concrete and building sand.

**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.

**NASH ROCKS, STONE AND LIME CO., LTD.**, Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

**OLD RADNOR TRADING CO., LTD.**, Kingston. (Tel. 11.) (See Herefordshire.)

**SALOP SAND AND GRAVEL SUPPLY CO.**, Admaston, Wellington. (Tel. 961.) Salop.

**TERN HILL SAND AND GRAVEL CO., LTD.**, Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

**TRENTHAM GRAVEL CO., LTD.**, Lordley Quarries, near Market Drayton, Staffs. (Tel.: Market Drayton 340/5.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand and plastering sand. Plant capacity 2,000 tons per day.

## SOMERSET

**ASHAM QUARRY CO., LTD.**, Chantry, Frome. (Tel.: Nunsey 351.) All sizes block, broken and aggregates. Tarrad and bituminous macadam. Ex-quarry or delivered.

**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Avon 243.)

**HALL AND CO., LTD.**, Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concrete, plastering and building sand.

**ROADS RECONSTRUCTION (1934), LTD.**, Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

**WAINWRIGHT JOHN, AND CO., LTD.**, Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates. Filter-media, building blocks and slabs.

## SOUTH SCOTLAND

**ESK MANUFACTURING CO., LTD.**, Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

## SOUTH WALES

**IN-SITU CONCRETE, LTD.**, Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhiwina 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

**PENMAENMAWR AND WELSH GRANITE CO., LTD.**, 18 Quay Street, Cardiff. (Tel. 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Fenny Quarry, Bridgend. (Tel. 1086/7.) Coated items also available.

**SESSIONS AND SONS, LTD.**, West Dock, Cardiff. Producers of crushed and fine aggregate, dredged and graded to British Standards. Branches: Newport and Swansea. (Also Gloucester and Hereford.)

**SOUTH WALES SAND AND GRAVEL CO., LTD.**, Head Office: F.O. Box 1, Beaufort, Builders Swansea. (Tel.: Swansea 33071-5 lines.) Sand and gravel merchants, builders' merchants. Pennant Quarry owners, also hardcore, ashes, fillings, graded clinker filter media. Depots: Cardiff, Newport, Harport Talbot, Briton Ferry, Swansea, Llanelly.

## STAFFORDSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output, reliable deliveries.

**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)

**CROXDEN GRAVEL, LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

**DUNNING AND SON, LTD.**, Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

**HARPER AND THOMAS, LTD.**, Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

**HILTON GRAVEL, LTD.**, Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent. (Tel.: Longton 32196) and Stretton, Burton-on-Trent. (Tel.: Burton 6061.)

**HULL AND GRAVEL CO., LTD.**, Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3, Cannon Street, Manchester. (Tel.: Blackfriars 2277/8.)

**RUGELEY GRAVEL CO., LTD.**, Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregate to B.S.S. Large output.



# CONTRACTORS' GUIDE TO AGGREGATES

## STAFFORDSHIRE

**SALISBURY AND WOOD, LTD.**, Matlock. (Tel. 272/273.) (For details see Derbyshire.)  
**SHIRE OAK GRAVELS, LTD.**, Lichfield Road, Walsau Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)  
**TERN HILL SAND AND GRAVEL CO., LTD.**, Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) P/s sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggins.  
**TRENTHAM GRAVEL CO., LTD.**, Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel. Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand. Plastering sand. Plant capacity 2,000 tons per day.

## SUFFOLK

**ALRESFORD SAND AND BALLAST CO., LTD.**, Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggins.  
**BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD.**, near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**DARBY'S SAND AND GRAVEL CO., LTD.**, Pit at Chippenham, Cambs. (See Cambs.)  
**DICKERSON, M., LTD.**, Teversham Corner, Newmarket Road, Cambridge. (Tel.: Cam. 56973/4.) (See Cambs.)  
**FRICKENHAM GRAVEL CO., LTD.**, Pit at Freckenham, (See Cambs.)  
**HALL AND CO., LTD.**, West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concretes, plastering and building sand.  
**MACLAREN BROS. (KENNETT), LTD.**, Station Road, Kennett, Cambs. (Tel.: Kentford 333/4.) (See Cambs.)  
**ST. IVES SAND AND GRAVEL CO., LTD.**, 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)  
**THORPE GRAVEL PITS, LTD.**, Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)  
**WEBB, G., CAMBRIDGE**, 35 Magrath Avenue, Cambridge. (Tel. 3969/4353.) (See Cambs.)

## SURREY

**COFF, HARRY A., LTD.**, Buckhurst Hill, Cheapside Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)  
**EASTWOOD SALES, LTD.**, Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, near Egham. (Tel.: Egham 3121.) Producers and distributors of all grades of washed aggregates.  
**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)  
**HALL AND CO., LTD.**, Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Sand and Reigate. Gravel aggregates, concreting, plastering and building sand, Surcrete precision-mixed concrete.  
**HARRIS, M. P. AND CO., LTD.**, Kingston Road, Leatherhead, Surrey (Tel. 3497). (See Sussex.)  
**JAMES AND CO., LTD.**, 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)  
**LONDON BALLAST CO., LTD.**, (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.  
**MARCO (AGGREGATES), LTD.**, Pit: Norlands Lane, Thorpe, near Egham. (Tel.: Chertsey 3401.) Producers and distributors of high-grade washed sand, shingle, ballast, etc.  
**MARCO (CROYDON), LTD.**, Hampton Road, West Croydon. (Tel.: Thornton Heath 4236/7/8.) All building and road aggregates.  
**WELLS, A. L. AND SON, LTD.**, Builders' Merchants, Garlands Road, Leatherhead. (Tel.: 3018/9.) Sand aggregates, hardcore, ashes, cement, Clinker block manufacturers.  
**WINTON, WM. R., LTD.**, Sand, Woking. (Tel.: Kingley 2454/5.) All grades sand, shingle, ballast, hoggins and ashes. Clinker block manufacturers.

## SUSSEX

**AVANN, F.**, Cavendish Avenue, Eastbourne. (Tel.: 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, tarmac, etc. supplied.  
**DANGERFIELD, F. J. AND CO., LTD.**, 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)  
**GILSON, S. C. AND SONS, LTD.**, Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)  
**HALL AND CO., LTD.**, 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bechill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumblies, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portlaid. Gravel aggregates, concreting, plastering and building sand, Surcrete precision-mixed concrete.  
**HARRIS, M. P. AND CO., LTD.**, West Station Goods Yard, Bechill. (Tel. 61); Cavendish Place, Eastbourne (Tel. 3800); Dominion Road, Worthing (Tel. 8822); Whitbread Lane, Northam (Tel. 2311); Station Goods Yard, Haywards Heath (Tel. 1750); Crawley Road, Horsham (Tel. 3360); The Hornet, Chichester (Tel. 4181). All grades aggregates, hardcore, clinker, ashes, etc.  
**WRIGHT, C. AND SONS (TON), LTD.**, 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

## WARWICKSHIRE

**BALLIDON QUARRIES, LTD.**, Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.  
**BRUNTINGTHORPE GRAVELS, LTD.**, Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregates, building and concrete sand to B.S.S., scientifically balanced ballast.  
**COOPER, J. A. (TRANSPORT), LTD.**, Hurley, near Atherstone, Warwicks. (Tel.: Hurley 225.) Shale pit at Newdigate Colliery, Bedworth, near Coventry. Shale, hardcore and clinker ash as dug or graded. Delivered to site or loaded into customers' own vehicles by arrangement.  
**DUSTON STONE QUARRIES, LTD.**, New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)  
**HALL AND CO., LTD.**, 183 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 356.) Gravel aggregates, concreting, plastering and building sand.  
**HARRABIN, W. H. AND SONS, LTD.**, Navigation Bridge, Stone, Stanton Road, Coventry. (Tel.: 89439.) All materials, granite, hardcore, kerbs and flags, gravel, sands, ashes, setts, etc.  
**JUDKINS, LTD.**, Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411-10 lines.) All sizes washed granite aggregates, tarred and bituminous macadam. Slab mix a speciality.  
**WELFORD GRAVELS, LTD.**, Head Office: Goldington Bedford (Tel. 4587/8/9.) (See Bedfordshire and Northamptonshire.)  
**YEOMANS, G. R., LTD.**, Oxford Road, Ryton-on-Dunsmore, near Coventry. (Tel.: Coventry, Tollbar 276/7/8.) Shale, hardcore, as dug and graded. Loaded into vehicles or delivered to site.

## WESTMORLAND

**BROOMBYS, LTD.**, Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel, sand, limestone, granite chippings, clinkers, ballast, macadam, rockery sand, etc.  
**ESK MANUFACTURING CO., LTD.**, Carlisle (Tel.: Carlisle 2-4941). For details, see Cumbria.

## WILTSHIRE

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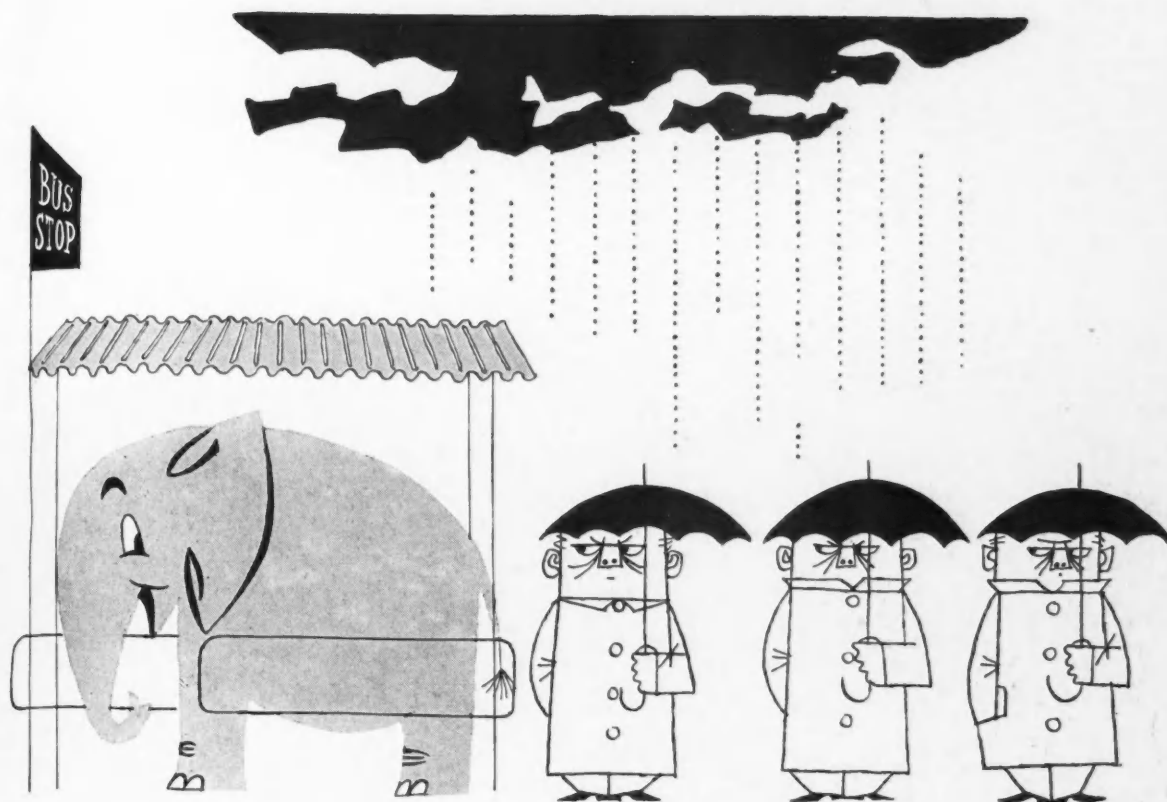
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